

INDEX THELYPTERIDIS

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Thelypteris Schmidel has been proposed for conservation by Holttum (1968) over Thelypteris Adanson (= Pteris). In so doing he has presented a brief historical outline of the problems involved in establishing Thelypteris Schmidel. Fernald and Weatherby (1929) early presented the pros and cons regarding Schmidel's publication of Thelypteris and gave reasons why the name was legitimately published as a generic name. Schott (1834) was the first to use the binomial Thelypteris palustris, thus establishing the genotype.

Ferns with "thelypteroid" characteristics have been described originally in many different genera, mainly in Nephrodium, Aspidium, Polypodium, Dryopteris, Lastrea, Cyclosorus, Meniscium, Gymnogramma, Abacopteris, Phegopteris and Stegnogramma. They have been transferred to Dryopteris, Thelypteris, Phegopteris, Lastrea, Cyclosorus, or have also most recently been put into numerous new genera by Ching (1963).

Nieuwland (1910) presented Dryopteris as a synonym of Thelypteris and thereby started a long line of confusion. Not only were palustris, simulata and noveboracensis put into Thelypteris, but also fragrans, marginalis, filix-mas, goldiana, bootii, cristata and spinulosa were added. Christensen (1913 and 1920) in his Monograph of the genus Dryopteris treated the genus as a large one, including in it those ferns with "thelypteroid" characteristics.

Ching (1936), in his Revision of the Genus Dryopteris in the Sikkim-Himalayan Region, accepted the ferns with "thelypteroid" characteristics as a separate genus, Thelypteris, and included in it species described in Lastrea, Glaphyopteris, Leptogramma and other genera. Thus he made Thelypteris a large genus, describing many new species and transferring about 80 species into the genus at that time.

Christensen (1938) in the Manual of Pteridology recognized the essential differences between the dryopteroid and thelypteroid ferns by dividing his subfamily (XII) Dryopteridoideae into two tribes: Dryopterideae and Thelypterideae. In the Thelypterideae he included Thelypteris Schmidel (Lastrea Bory, Dryopteris

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part. auctt.) with about 500 species, Phegopteris Fée (= Gymnocarpium Newman), Glaphyopteris Presl, Steiropteris C.Ch., Parapolystichum Keyss., Pteridrys C.Ch. et Ching, Monachosorum Kunze, Monachosorella Hayata, Cyclosorus Link (Meniscium Schreber, Leptogramma J.Sm.), Stegnogramma Blume, Sphaerostephanos J.Sm.) and Goniopteris Presl.

H. Itô (1939) emended Thelypteris Schmidel and divided the genus into several sections: Euthelypteris H. Itô (Type: Th. palustris Schott), Parathelypteris H. Itô (Type: Th. glanduligera Ching), Metathelypteris H. Itô (Type: Th. gracilescens Ching) and Macrothelypteris H. Itô (Type: Th. oligophlebia Ching). However, he maintained the genera Glaphyopteris Presl (Type: Gl. decussata Presl), with sect. Euglaphyopteris H. Itô and sect. Cyclogramma H. Itô (Gl. simulans H. Itô); Phegopteris Fée (Type: Ph. polypodioides Fée), with sect. Euphegopteris Christ and sect. Lastrella H. Itô (Type: Ph. decursive-pinnata Fée); Gymnocarpium Newm. (Type: G. dryopteris Newm.), with sect. Eugymnocarpium and sect. Currania Ching (Type: Gymnocarpium gracilipes Ching); Leptogramma J.Sm. (Type: L. totta J.Sm.); Cyclosorus Link (Type: C. gongylodes Link) and Meniscium Schreb. (Type: M. reticulatum Swartz), with sect. Eumeniscium H. Itô and sect. Goniopteridopsis H. Itô (Type: M. urophyllum H. Itô).

Ching (1940) established the family Thelypteridaceae, with twelve genera and about 800 species. He divided the family into three tribes: Thelypterideae, Goniopterideae and Dictyoclineae. In the tribe Thelypterideae he placed Thelypteris Schmidel (Type: Th. palustris Schott), Lastreopsis Ching (Type: L. recedens (J.Sm.) Ching), Hypodematum Kunze (Type: H. crenatum (Forsk.) Kuhn), Glaphyopteris Presl (Type: Gl. decussata (L.) Presl), Parapolystichum (Keyserling) Ching (Type: P. effusum (Sw.) Ching) and Leptogramma J.Sm., emend. Ching (L. totta (Willd.) J.Sm.). In the tribe Goniopterideae he placed Cyclosorus Link (Type: C. gongylodes (Schkuhr) Link), Stegnogramma Blume (Type: S. aspidioides Blume), Goniopteris Presl (Type: G. crenata (Sw.) Presl), Abacopteris Fée, emend. Ching (Type: A. lineata (Blume) Ching) and Meniscium Schreb. (Type: M. reticulatum (L.) Swartz). In the tribe Dictyoclineae he placed Dictyocline Moore (Type: D. griffithii (Hook. et Thoms.) Moore. He placed Sphaerostephanos J.Sm. (Type: S. polycarpa (Blume) Copel.) in the monotypic family Sphaerostephanaceae Ching.

Copeland (1947) in Genera Filicum established the family Aspidiaceae (S.F.Gray) Copel., including in it several families established by Ching (1940), as Dictyoxiphiaceae, Thelypteridaceae, Sphaerostephanaceae, Woodsiaceae, Hypoderriaceae, Didymochlaenaceae, and Elaphoglossaceae. On the basis that Thelypteris Schmidel was invalidly published, Copeland took up Lastrea Bory and transferred many species to this genus, using Polypodium oreopteris Ehrh. as genotype. This arrangement also permitted Lastrea thelypteris (L.) Bory to become usable. The concept of Lastrea presented by Copeland

included Leptogramma J.Sm. (Type: L. totta (Willd.) J.Sm.), Amauropelta Kunze (Type: A. breutelii Kunze), Glaphyopteris Presl (Type: Gl. decussata (L.) Presl), Phegopteris Fée (Type: Polypodium poly-podioides L.), Oochlamys Fée (Type: O. rivoirei Fée), Steiropteris C.Ch., Cyclogramma Tagawa (Type: Thelypteris simulans Ching).

Copeland in Genera Filicum also maintained the following genera: Cyclosorus Link, including Abacopteris Fée (Type: C. gongyloides (Schkuhr) Link) and transferred many species into this genus; Currania Copel. (Type: C. gracilipes Copel.); Ampelopteris Kunze (Type: A. elegans Kunze); Sphaerostephanos J.Sm. in Hook. et Bauer (Type: S. asplenioides J.Sm.); Stegnogramma Blume (Type: S. aspidioides Blume); Goniopteris Presl (Lectotype: G. viviparum (Raddi) Brack.); Meniscium Schreber (Type: M. reticulatum (L.) Swartz); and Dictyocline Moore (Type: D. griffithii Moore).

Pichi-Sermolli (1953) argued that since the legitimacy of Thelypteris Schmidel was uncertain, the best solution was to give up the name and to protect Lastrea versus Thelypteris. Fuchs (1963) also proposed using Lastrea, using L. thelypteris (L.) Presl and L. limbosperma (Allioni) Holub et Pouzar apud Holub (1961) as representatives (Flora of Hungary). Fuchs also maintained the generic names Dryopteris, Gymnocarpium and Phegopteris.

Holttum (1954) distinguished four genera in the family Thelypteridaceae: Thelypteris, Cyclosorus, Abacopteris and Ampelopteris.

Ching (1963) in his reclassification of the family Thelypteridaceae divided the family into the three tribes he had established in 1940 and then subdivided these into subtribes, allowing for 18 genera, transferring the Asiatic mainland species previously (1936) placed in Thelypteris. Many of the sections Ching elevated to genera, especially those of H. Itô (1939), leaving only three species in Thelypteris.

Tribe Thelypterideae Ching (1940): Subtribe Thelypteridinae Ching: Thelypteris Schmidel, Lastrea Bory, Parathelypteris (H.Itô) Ching, Metathelypteris (H.Itô) Ching and Hypodematium Kunze; Subtribe Phegopteridinae Ching: Macrothelypteris (H.Itô) Ching, Phegopteris Fée, Pseudophegopteris Ching, Cyclogramma Tagawa, and Leptogramma J.Sm.

Tribe Goniopterideae Ching (1940): Subtribe Pseudocyclosorinae Ching: Glaphyopteris Ching, Pseudocyclosorus Ching, and Mesoneuron Ching; Subtribe Cyclosorinae Ching: Cyclosorus Link and Stegnogramma Blume; Subtribe Goniopteridinae Ching: Ampelopteris Kunze; Subtribe Menisciinae Ching: Abacopteris Fée, emend. Ching.

Tribe Dictyoclineae Ching (1940). Dictyocline Moore.

Morton (1963) on the other hand widened the concept of Thelypteris Schmidel by including the generic segregates proposed by Ching, Copeland, Alston, Holttum and Tardieu-Blot up to that time. Therefore, Morton's ultimate concept of Thelypteris is much like that of Ching in 1936. However, Morton divided the genus into the following subgenera and sections.

Thelypteris Schmidel is divided into three subgenera: Subgenus Thelypteris (Lectotype: Th. palustris Schott); Subgenus Lastrea (Bory) Alston (Type: Polypodium oreopteris Ehrh.), with sect. Lastrea and sect. Glaphyopteris (Presl) Morton (Type: Polypodium decussatum L.); and subgenus Cyclosorus (Link) Morton (Type: Aspidium gongyloides Schkuhr), with sect. Cyclosorus, sect. Steiropteris (C. Chr.) Morton (Lectotype: Polypodium deltoideum Swartz), sect. Leptogramma (J. Sm.) Morton (Lectotype: L. totta J. Sm. = Th. pozoi (Lagasca) Morton), sect. Goniopteris (Presl) Morton (Lectotype: Polypodium crenatum Swartz = Th. poitiana (Bory) Proctor), and sect. Meniscium (Schreber) Morton (Type: Polypodium reticulatum L.).

Momose made extensive studies of many genera of ferns and of species-complexes within genera. His studies dealt mainly with the gametophyte stage. His studies are reflected in the Studies on the Gametophyte of Ferns, I-XXIX, published in the Journal of Japanese Botany, volumes 13-18, 1937-1942. The prothalli of the Thelypteroid ferns are reported in parts XVI and XVII (1941). Most of the species studied are those found in Japan.

Iwatsuki (1964-1965) presented his classification of Thelypteris Schmidel, based upon his studies of the thelypteroid ferns of Japan and adjacent regions. His studies have been quite extensive and quite thorough. He recognizes the following genera in the Thelypteridaceae: Stegnogramma Blume, with three sections; Thelypteris Schmidel, with 14 subgenera; and Meniscium Schreber, with 4 sections.

1. Stegnogramma Blume (1828). (Type: St. aspidioides Bl.).
 - a. Sect. 1. Leptogramma (J. Sm.) K. Iwats. (1963) (Type: Polypodium tottum Willd., non Thunb. = St. pozoi (Lagasca) K. Iwats.).
 - b. Sect. 2. Stegnogramma. (Type: St. aspidioides Bl.).
 - c. Sect. 3. Dictyocline (Moore) K. Iwats. (1963). (Type: St. griffithii (Moore) K. Iwats.).
2. Thelypteris Schmidel (1763). (Type: Acrostichum thelypteris L.).
 - a. Subgen. 1. Phegopteris (Presl) Ching (1936). (Type: Polypodium phegopteris L.).
 1. Sect. 1. Phegopteris. (2 species).
 2. Sect. 2. Lastrella (H. Ito) K. Iwats. (1964). (Type: Polypodium decursive-pinnatum van Hall) (50 species).

- b. Subgen. 2. Cyclogramma (Tagawa) K. Iwats. (1964). (Type: Thelypteris simulans Ching = Th. auriculata). (7 species).
- c. Subgen. 3. Thelypteris. (~~Lastrea~~ Bory, Type: Polypodium oreopteris Ehrh.).
 - 1. Sect. 1. Metathelypteris H.Ito (1939). (Type: Aspidium gracilescens Blume). (14 species).
 - 2. Sect. 2. Thelypteris. (Type: Acrostichum thelypteris L. = Th. palustris Schott). (300 species).
- d. Subgen. 4. Cyclosoriopsis K. Iwats. (1964). (Type: Polypodium dentatum Forsk.). (150 species).
- e. Subgen. 5. Glaphyropteris (Presl) Alston (1958). (Type: Polypodium decussatum L.). (110 species).
- f. Subgen. 6. Glaphyropteridopsis (Ching) K. Iwats. (1964). (Type: Polypodium erubescens Wall. ex Hook.). (20 species).
 - 1. Sect. 1. Glaphyropteridopsis. (3 species).
 - 2. Sect. 2. Mesoneuron (Ching) K. Iwats. (Type: Aspidium crassifolium Blume). (10 species).
 - 3. Sect. 3. Neocyclosorus K. Iwats. (1964). (Type: Aspidium heterocarpon Blume). (Several species).
- g. Subgen. 7. Steiropteris (C. Chr.) K. Iwats. (1964). (Type: Polypodium deltoideum Swartz). (13 species).
- h. Subgen. 8. Cyclosorus (Link) Morton (1963). (Type: Aspidium goggilodus Schkuhr. (100 or more species).
- i. Subgen. 9. Sphaerostephanos (J. Sm.) K. Iwats. (1964). (Type: Sph. asplenioides J. Sm. = Th. polycarpa (Blume) K. Iwats. (6 species).
- j. Subgen. 10. Haplodictyum (Presl) K. Iwats. (1964). (Type: H. heterophyllum Presl, 1849).
- k. Subgen. 11. Pneumatopteris (Nakai) K. Iwats. (1964). (Type: Aspidium callosum Blume).
 - 1. Sect. 1. Pneumatopteris. (20 species).
 - 2. Sect. 2. Macrocyclosorus K. Iwats. (1964). (Type: Aspidium megaphyllum Mett. (20 species).
- l. Subgen. 12. Abacopteris (Fée) K. Iwats. (1964). (Type: Aspidium lineatum Blume, 1828).
- m. Subgen. 13. Dimorphopteris (Tagawa et K. Iwats.) K. Iwats. (1 species).
- n. Subgen. 14. Cyrtomiopsis K. Iwats. (1964). (Type: Aspidium boydiae Eaton). (1 species).
- 3. Meniscium Schreber (1791). (Type: Polypodium reticulatum L. (80 species).
 - a. Sect. 1. Asterochlaena (C. Chr.) K. Iwats. (1964). (Type: Polypodium reptans Gmel.). (50 species).
 - b. Sect. 2. Goniopteris (Presl) K. Iwats. (1964). (Type: Polypodium crenatum Swartz = Meniscium poiteanum (Bory) K. Iwats.) (20 species).
 - c. Sect. 3. Ampelopteris (Kunze) K. Iwats. (1964). (Type: A. elegans Kunze = Meniscium proliferum (Retz.) Sw.).
 - d. Sect. 4. Meniscium. (12 species).

Thelypteridaceae may or may not be a natural family of ferns separate from the rest of the dryopteroid ferns. Perhaps it is still best to treat the thelypteroid ferns as a subfamily of the Aspidiaceae. Christensen had proposed Subfamily Dryopteridoideae Tribe Thelypterideae (1938) and Copeland placed the family Thelypteridaceae Ching in the Aspidiaceae Copel. (1947).

Aspidiaceae subfam. Thelypteridoideae Reed, subfam. nov.
 Basionym: Polypodiaceae subfam. Dryopteridoideae tribe Thelypterideae Christensen, Manual of Pteridology, 544. 1938;
Thelypteridaceae tribe Thelypterideae Ching, Sunyatsenia, 5: 238. 1940; Acta Phytotax. Sinica, 8(4): 295. 1963. Type genus: Thelypteris Schmidel.

Whether the Thelypteridaceae or the subfamily Thelypteridoideae is composed of many genera as proposed by Ching (1963), or by a few genera as proposed by Iwatsuki (1964-1965), or by one large genus, as originally proposed by Ching (1936) and as emended and enlarged by Morton (1963), due to the wide range of variability of venation, of sporangial and indusial characteristics and of frond shape, and due to the gradual intergradation of all segregates as more species are put into Thelypteris, it seems to this author best to treat Thelypteris as one large genus with numerous subgenera and sections. Iwatsuki's treatment presents the genus in the most coherent form. However, I do agree with Morton (1963) and Ching (1963) that the Meniscium-Goniopteris-Stegnogramma-complex belongs with the Cyclosorus-complex and place them as additional subgenera or sections under Thelypteris.

Thelypteris subgen. Stegnogramma (Blume) Reed, stat. nov.
 Basionym: Stegnogramma Blume, Enum. Pl. Jav., 172. 1828. (Type: St. aspidioides Blume).

Thelypteris subgen. Leptogramma (J.Sm.) Reed, stat. nov.
 Basionym: Leptogramma J. Sm., Journ. Bot., 4: 51. 1841. (Type: Polypodium totta Willd., non Thunb. = Th. pozoi (Lagasca) Morton. Syn.: Thelypteris subgen. Cyclosorus sect. Leptogramma (J.Sm.) Morton, Amer. Fern Journ., 53: 153. 1963.

Thelypteris subgen. Dictyocline (Moore) Reed, stat. nov.
 Basionym: Dictyocline Moore, Gard. Chron., 1855: 854. 1855. (Type: D. griffithii Moore).

Thelypteris subgen. Meniscium (Schreber) Reed, stat. nov.
 Basionym: Meniscium Schreber, in Linn. Gen. Pl., ed VIII, 2: 757. 1791. (Type: Polypodium reticulatum L.). Syn.: Thelypteris subgen. Cyclosorus sect. Meniscium (Schreber) Morton, Amer. Fern Journ., 53: 154. 1963. (80 species).

sect. 1. Meniscium. (12 species).

sect. 2. Asterochlaena (C.Chr.) Reed, stat. nov. Basionym: Dryopteris subgen. Goniopteris sect. Asterochlaena C.Chr., Biol. Arb. tit. Eug. Warn., 84. 1911. (Type: Polypodium reptans Gmel., 1791). (50 species).

sect. 3. Goniopteris (Presl) Reed, stat. nov. Basionym: Goniopteris Presl, Tent. Pterid., 181. 1836. (Type:

Polypodium crenatum Swartz = Th. poiteana (Bory) Proctor).
Syn.: Thelypteris subgen. Cyclosorus sect. Goniopteris
(Presl) Morton, Amer. Fern Journ., 53: 154. 1963, p.p.
(20 species).

sect. 4. Ampelopteris (Kunze) Reed, stat. nov. Basionym:
Ampelopteris Kunze, Bot. Zeit., 6: 114. 1848. (Type:
A. elegans Kunze). (1 species).

Most of the fossil species which belong in Thelypteris have been described in the genera Aspidium, Goniopteris, Phegopteris, Lastrea (Lastraea), Cyclosorus or Dryopteris. The most comprehensive papers dealing with fossil ferns of this complex are those by Alex. Braun (Ueber Fossile Goniopteris-Arten. Zeitschr. Geol. Ges., 4: 553-556. 1852) and Ettinghausen (Die Farnkräuter der Jetztwelt, 160-203, illus. 1865). The species are mainly based on venation of fragments of pinnae. Many have proven to belong to other genera. However, there are some which have sporangia or/and indusia which prove their affinity to Thelypteris, for which reason they are transferred into Thelypteris here.

THELYPTERIS Schmidel

Thelypteris Schmidel, Icon. Pl., ed. J.C.Keller, 45, t. 11, 13.
Oct. 1763; Schott, Gen. Gil., ad t. 10. 1834; emend. H. Itô,
in Nakai et Honda, Nova Flora Japonica, Polypodiaceae, Dryo-
pteroideae, I: 123. 1939; Morton, Amer. Fern Journ., 53(4):
153-154. 1963; Ching, Bull. Fan Mem. Inst. Biol. Bot., 6: 250.
1936; Holttum, Taxon, 17(3): 330. 1968, gen. conserv. propos.;
non Thelypteris Adanson, Fam. des Plantes, 2: 20. July-Aug.
1763 = Pteris). Type: Polypodium thelypteris L. = Thelypteris
palustris Schott. .

Meniscium Schreber in L. Gen. Pl., ed. 8, II: 757. 1791. Type:
Polypodium reticulatum L. = Thelypteris reticulata (L.)
Proctor.

Lastrea Bory, Dict. Class. Hist. Nat., 6: 588. 1824. Type: Polypodium oreopteris Ehrh. = Thelypteris limbosperma (All.)
Fuchs.

Stegnogramma Blume, Enum. Pl. Jav., 172. 1828. Type: Stegnogramma aspidioides Blume = Thelypteris aspidioides (Willd.) Tryon.
Cyclosorus Link, Hort. Berol., 2: 128. 1833. Type: Aspidium gogilodus Schkuhr = Thelypteris totta (Thunb.) Schelpe.

- Goniopteris Presl, Tent. Pterid., 181. 1836. Type: Polypodium viviparum Raddi = Thelypteris vivipara (Raddi) Reed.
- Sphaerostephanos J. Smith in Hook. et Baker, Gen. Fil., 21. 1839. Type: Sphaerostephanos asplenoides J. Smith = Thelypteris polycarpa (Blume) K. Iwats.
- Mesochlaena R. Brown ex J. Smith, Journ. Bot., 3: 18. 1840. Type: Sphaerostephanos asplenoides J. Smith = Thelypteris polycarpa (Blume) K. Iwats.
- Leptogramma J. Smith, Journ. Bot., 4: 51. 1841. Type: Polypodium tottum Willd., non Thunb. = Thelypteris pozoi (Lagasca) Morton.
- Amauropelta Kunze, Farnkr., 1: 86. 1843. Type: Amauropelta breutelii Kunze = Thelypteris limbata (Swartz) Proctor.
- Abacopteris Fée, Congr. Sci. France, X, 1: 178. 1843. Type: Aspidium lineatum Blume = Thelypteris lineata (Blume) K. Iwats.
- Ampelopteris Kunze, Bot. Zeit., 6: 114. 1848. Type: Ampelopteris elegans Kunze = Thelypteris prolifera (Retz) Reed.
- Glaphyopteris Presl, Abh. Bohm. Ges. Wiss., V, 5: 344. 1848. Type: Polypodium decussatum L. = Thelypteris decussata (L.) Proctor.
- Haplodictyum Presl, Epim. Bot., 50. 1849. Type: Haplodictyum heterophyllum Presl = Thelypteris heterophylla (Presl) K. Iwats.
- Pronephrium Presl, Epim. Bot., 258. 1849. Type: Aspidium lineatum Blume = Thelypteris lineata (Blume) K. Iwats.
- Phegopteris (Presl) Fée, Gen. Fil., 242. 1852. Type: Phegopteris polypodioides Fée = Thelypteris phegopteris (L.) Slossen ex Rydb.
- Oochlamys Fée, Gen. Fil., 297. 1852. Type: Oochlamys revoirei Fée = Thelypteris opposita (Vahl) Ching.
- Hemestheum Newman, Phytologist, 4: app. XXII. 1851. Type: Polypodium thelypteris L. = Thelypteris palustris Schott.
- Dictyocline Moore, Gard. Chron., 1855: 854. 1855. Type: Dictyocline griffithii Moore = Thelypteris griffithii (Moore) Reed.
- Pneumatopteris Nakai, Bot. Mag. Tokyo, 47: 179. 1933. Type: Aspidium callosum Blume = Thelypteris callosa (Blume) K. Iwats.
- Steiropteris (C. Chr.) C. Chr. in Verdoorn, Man. Pterid., 544. 1938. Type: Polypodium deltoideum Swartz = Thelypteris deltoidea (Swartz) Proctor.
- Cyclogramma Tagawa, Acta Phytotax. Geobot., 7: 53. 1938. Type: Thelypteris simulans Ching = Thelypteris auriculata (J. Smith) K. Iwats.
- Menisorus Alston, Bol. Soc. Brot., 30: 20. 1956. Type: Meniscium pauciflorum Hook. = Thelypteris pauciflora (Hook.) Reed.
- Dimorphopteris Tagawa et K. Iwats. ex K. Iwats., Acta Phytotax. Geobot., 19: 8. 1961. Type: Dimorphopteris moniliformis Tagawa et K. Iwats. = Thelypteris moniliformis (Tagawa et K. Iwats.) K. Iwats.
- Parathelypteris (H. Ito) Ching, Acta Phytotax. Sinica, 8: 300. 1963. Type: Aspidium glanduligerum Kunze = Thelypteris glanduligera (Kunze) Ching.

Metathelypteris (H.Itô) Ching, Acta Phytotax. Sinica, 8: 305. 1963. Type: Aspidium gracilescens Blume = Thelypteris gracilescens (Blume) Ching.

Macrothelypteris (H.Itô) Ching, Acta Phytotax. Sinica, 8: 308. 1963. Type: Nephrodium oligophlebium Baker = Thelypteris torresiana (Gaudich.) Alston.

Pseudophegopteris Ching, Acta Phytotax. Sinica, 8: 313. 1963. Type: Polypodium pyrrhorhachis Kunze = Thelypteris paludosa (Blume) K.Iwats.

Glaphyopteridopsis Ching, Acta Phytotax. Sinica, 8: 320. 1963. Type: Polypodium erubescens Wall. ex Hook. = Thelypteris erubescens (Wall. ex Hook.) Ching.

Pseudocyclosorus Ching, Acta Phytotax. Sinica, 8: 322. 1963. Type: Aspidium xylodes Kunze = Thelypteris xylodes (Kunze) Ching.

Mesoneuron Ching, Acta Phytotax. Sinica, 8: 325. 1963. Type: Aspidium crassifolium Blume = Thelypteris crassifolia (Blume) Ching.

Anisocampium Presl, Epim. Bot., 58. 1849. Type: Anisocampium cumingianum Presl = Thelypteris aristata (Fee) Reed.

Thelypteris abbiattii Reed, nom. nov. Basionym: Goniopteris burkartii Abbiatti, Darwiniana, 13(2-4): 556, f. 6, pl. 4. 1964. Argentina.

Th. abbotiana (Maxon) Ching, Fan Mem. Inst. Biol. Bull., 10: 250. 1941. Basionym: Dryopteris abbotiana Maxon, Journ. Wash. Acad. Sci., 14: 89. 1924. Hispaniola.

Th. abortiva (Blume) Reed, comb. nov. Basionym: Aspidium abortivum Blume, Enum. Pl. Jav., 154. 1828. Malesia.

Th. abrupta (Desv.) Proctor, Rhodora, 61: 305. (1959) 1960. Basionym: Polypodium abruptum Desv., Prodr., 239. 1827. West Indies-Brazil.

Th. acanthocarpa (Copel.) Reed, comb. nov. Basionym: Dryopteris acanthocarpa Copel., Philip. Journ. Sci., Bot. 6: 136, t. 17. 1911. Borneo.

Th. achalensis (Hieron.) Abbiatti, Darwiniana, 13(2-4): 566. 1964. Basionym: Aspidium achalense Hieron., Engl. Bot. Jahrb., 22: 371. 1896 (1897); Synonym: Aspidium conterminum var. oligosorum Griseb., Symb., 344, n. 2252, partim. 1879, non Aspidium oligosorum (Willd.) Kunth.

Th. acrostichoides (Michx.) Nieuwl., Amer. Midl. Nat., 2: 277. 1912. Basionym: Nephrodium acrostichoides Michx., Fl. Bor. Amer., 2: 267. 1803. = Polystichum.

Th. acuminata (Panz. in Christm. et Panz.) Morton, Amer. Fern Journ., 48: 139. (1958) 1959. Basionym: Polypodium acuminatum Panz. in Christm. et Panz., Nat. Hist., 14: 181, t. XCIX, f. 2. 1783; Synonym: Polypodium sophoroides Thunb., Trans. Linn. Soc., 2: 341. 1794; Aspidium oshimensense Christ, Bull. Boiss., II, 1: 1018. 1901;

- Dryopteris ogatana Koidz., Bot. Mag. Tokyo, 39: 10. 1925; Cyclosorus yamawakii H. Itô, Journ. Jap. Bot., 27: 340. 1952.
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 Polynesia, Bismarck Archipelago - Tahiti.
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 Basionym: Dryopteris decussata var. brasiliensis C.Ch., Danske
 Vid. Selsk. Skr., VII, 10: 161. 1913. Brazil.
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 C.Ch., Brittonia, 2: 295. 1937. New Guinea (Papua).
- Th. brausei* (Hieron.) Alston, Journ. Wash. Acad. Sci., 48(7): 233.
 1958. Basionym: Dryopteris brausei Hieron., Hedwigia, 46: 337,
 t. 6, f. 11. 1907. Ecuador, Colombia.
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 nym: Dryopteris brittonae Slosson ex Maxon in Britt., Pterid.
 Porto Rico, 475. 1926. Puerto Rico, Hispaniola.
- **Th. brongniartii* (Ett.) Reed, comb. nov. Basionym: Aspidium
brongniartii Ett., Die Farnkr. der Jetztwelt, 200. 1865. Syno-
 nym: Pecopteris unita Brongn., Hist. Veg. Foss., 1: 342, t. 116,
 f. 1-5. 1828; Cyatheites unitus Geinitz, Verstein. der Stein-
 kohle in Sachsen, 25, t. 29, f. 4-5. 1855. Upper Carboniferous:
 Germany (Saarbrück, Gaislauter, Wettebau, Oberhöndorf), France
 (Alias, St. Etienne) Aff. *Th. unita*.
- Th. brooksii* (Copel.) Reed, comb. nov. Basionym: Dryopteris brook-
sii Copel., Philip. Journ. Sci. Bot., 3: 345. 1909. Borneo.
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 6: 269. 1936. Basionym: Dryopteris brunnea Wall. ex C.Ch.,
 Ind. Fil., 255. 1905; Polypodium brunneum Wall., nomen nud.;
Phegopteris brunnea J. Smith, Hist. Fil., 233 (brunea). 1875
 (nomen). = *Th. paludosa*.
- Th. brunnea* var. glabrata (Clarke) Ching, Bull. Fan Mem. Inst.
 Biol., 6: 271. 1936. Basionym: Polypodium distans var. glabrata
 Clarke, Thans. Linn. Soc., II. Bot., 1: 544. 1880.
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 Biol., 6: 271. 1936. Basionym: Dryopteris hirtirachis C.Ch.,
 Ind. Fil., Suppl. II: 15. (1916) 1917. = *Th. paludosa*.
- Th. brunnea* var. pallida Ching, Bull. Fan Mem. Inst. Biol., Bot.
 11: 62. 1941.
- Th. brunnescens* (C.Ch. ex Kjellb. et C.Ch.) Reed, comb. nov.
 Basionym: Dryopteris brunnescens C.Ch. ex Kjellb. et C.Ch.,
 Engl. Bot. Jahrb., 66: 44. 1933. Celebes.
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 272. 1936. Basionym: Dryopteris bukoensis Tagawa, Acta Phyto-
 tax. Geobot., 1: 89. 1932. Japan (Honshu).
- Th. bunnemeyeri* Reed, nom. nov. Basionym: Leptogramma celebica
 Ching, Sinensia, 7: 99, t. 5. 1936. Celebes.
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- Th. calcarata* (Blume) Ching, Bull. Fan Mem. Inst. Biol. Bot., 6: 288. 1936. Basionym: *Aspidium calcaratum* Blume, Enum. Pl. Jav., 159. 1828. Oriental tropics: S. China - India - Java - Malesia - Samoa.
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- Th. callosa* (Blume) K. Iwats., Mem. Coll. Sci., Univ. Kyoto, Ser. B, 31(1): 34. 1964. Basionym: *Aspidium callosum* Blume, Enum. Pl. Jav., 152. 1828. Java, Sumatra.
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- Th. calvescens* (Ching) Reed, comb. nov. Basionym: *Cyclosorus calvescens* Ching, Bull. Fan Mem. Inst. Biol., Bot. 8: 225. 1938. China (Kweichow), Tonkin.
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- Th. canadasii* (Sod.) Alston, Journ. Wash. Acad. Sci., 48(7): 234. 1958. Basionym: *Nephrodium canadasii* Sodiro, Rec., 48. 1883; Crypt. Vasc. Quit., 236. 1893. Ecuador.
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- Th. caribaea* (Jenm.) Morton, Amer. Fern Journ., 53: 65. 1963. Basionym: *Nephrodium caribeum* Jenm., Journ. Bot., Brit. & For., 24: 270. 1886. Jamaica.
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- Th. caudipinna* Ching, Bull. Fan Mem. Inst. Biol., 6: 288. 1936. China (Hainan).

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- Th. *cesatiana* (C.Chr.) Reed, comb. nov. Basionym: Dryopteris cesatiana C.Chr., Ind. Fil., 257. 1905. Synonym: Meniscium beccarianum Ces., Rend. Acad. Napoli, 16: 27, 30. 1877, non Nephrodium beccarianum Ces., 1876. New Guinea, Fiji.
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- Th. *chamaeotaria* (Christ) Reed, comb. nov. Basionym: Dryopteris chamaeotaria Christ, Philip. Journ. Sci., Bot. 2: 203. 1907. Malesia - Polynesia.
- Th. *chaseana* Schelpe, Journ. S. Afr. Bot., 31(4): 263, f. 1 e-f. Oct. 1965. Africa (Southwest, Rhodesia, Malawi, Zambia, Tanzania, Angola).
- Th. *cheilanthoides* (Kunze) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 58. 1953. Basionym: Aspidium cheilanthoides Kunze, Linnaea, 22: 578. 1849. Brazil, Trop. Amer.
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- Th. *chlamydophora* (Rosenst.) Ching, Bull. Fan Mem. Inst. Biol., 6: 287. 1936. Basionym: Dryopteris chlamydophora Rosenst., Med. Rijks Herb. Leiden, 31: 5. 1917. Malaya, Borneo, prob. Sumatra.
- Th. *christensenii* (Christ) Reed, comb. nov. Basionym: Dryopteris christensenii Christ, Bull. Boiss., II, 7: 263. 1907; C.Chr., Vid. Selsk. Skr., VII, 4: 322, f. 46. 1907. Costa Rica - Panama.
- Th. *christii* (C.Chr.) Reed, comb. nov. Basionym: Dryopteris christii C.Chr., Ind. Fil., 257. 1905. Synonym: Meniscium opacum Bak., Journ. Bot., 1877: 166. 1877. Ecuador.
- Th. *chrysoloba* (Kaulf. ex Link) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 251. 1941. Basionym: Aspidium chrysolobum Kaulf. ex Link, Hort. Berol., 2: 117. 1833. Brazil, Colombia.
- Th. *chrysodioides* (Fée) Morton, Contrib. U.S. Nat. Herb., 38(2): 51. 1967. Basionym: Meniscium chrysodioides Fée, Gen. Fil., 225. 1852. S. Amer.
- Th. *chrysodioides* var. *goyazensis* (Maxon & Morton) Morton, Contrib. U. S. Nat. Herb., 38(2): 51. 1967. Basionym: Dryopteris chrysodioides var. *goyazensis* Maxon & Morton, Bull. Torr. Bot. Club, 65: 374. 1938. Brazil.
- Th. *chunii* Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 284. 1936. China (Kwangtung, Kweichow).
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- Th. clintoniana (D.C.Eaton) House, New York State Mus. Bull., 233-234: 69. 1922. Basionym: Aspidium cristatum var. clintonianum D.C.Eaton in A. Gray, Manual, 5th ed.: 665. 1867. = Dryopteris.
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- Th. clypeolutana (Desv.) Proctor, Rhodora, 61: 306. (1959) 1960. Basionym: Nephrodium clypeolutanum Desv., Mem. Soc. Linn. Paris, 6: 258. 1827. Endemic to Lesser Antilles.
- Th. coalescens (Baker) Reed, comb. nov. Basionym: Polypodium coalescens Baker, Journ. Bot., 1877: 164. 1877. Ecuador.
- Th. coarctata (Kunze) Tryon, Rhodora, 69: 5. 1967. Basionym: Aspidium coarctatum Kunze, Bot. Zeit., 1845: 287. 1845. Caracas, Colombia.
- Th. columbiana (C.Chr.) Morton, Leaflets of Western Bot., 8(8): 194. 1957. Basionym: Dryopteris columbiana C.Chr., Vid. Selsk. Skr., VII, 4: 279, f. 8. 1907. Colombia, Panama, Galapagos Isl.
- Th. comosa (Morton) Morton, Amer. Fern Journ., 51: 38. 1961. Basionym: Dryopteris comosa Morton, Journ. Wash. Acad. Sci., 28: 528. 1938. Peru.
- Th. compacta (Copel.) Reed, comb. nov. Basionym: Dryopteris compacta Copel., Philip. Journ. Sci., Bot. 6: 137, f. 18, 1911. Borneo.
- Th. concinna (Willd.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 251. 1941. (Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 58. 1953). Basionym: Polypodium concinnum Willd., Sp. Pl., 5: 201. 1810. Trop. Amer., Jamaica, Cuba, Mexico - Costa Rica - Ecuador.
- Th. concinna var. elongata (Fourn.) Reed, comb. nov. Basionym: Phegopteris elongata Fourn., Pl. Mex., 1: 87. 1872. Mexico.
- Th. conferta (Brause) Reed, comb. nov. Basionym: Dryopteris conferta Brause, Engl. Bot. Jahrb., 49: 22, f. 1F. 1912. New Guinea.
- Th. confluens (Thunb.) Morton, Contrib. U.S. Nat. Herb., 38(2): 71. 1967. Basionym: Pteris confluens Thunb., Prodr. Fl. Cap., 1800. S. Africa, Cape of Good Hope.
- Th. confusa (Copel.) Reed, comb. nov. Basionym: Dryopteris confusa Copel., Philip. Journ. Sci., 6C: 146. 1911. Luzon.
- Th. connexa (Kuhn ex Baker) Reed, comb. nov. Basionym: Nephrodium connexum Kuhn ex Baker, in Martius Fl. Bras., 1(2): 489. 1870. Synonym: Dryopteris martini C.Chr., Ind. Fil., 276. 1905. Cayenne.
- Th. consanguinea (Fée) Proctor, Rhodora, 61: 306. (1959) 1960. Basionym: Aspidium consanguineum Fée, 11^e Mem. Foug., 76, t. 20, f. 3. 1866. Guadeloupe, West Indies.

- Thelypteris consanguinea* var. *aequalis* (C.Chr.) Reed, comb. nov.
Basionym: *Dryopteris consanguinea* var. *aequalis* C.Chr., Smiths. Misc. Coll., 52: 380. 1909. Jamaica, Grenada.
- Th. *consimilis* (Fée ex Baker) Proctor, *Rhodora*, 68: 468. 1966. Basionym: *Gymnogramma gracilis* " *G. consimilis*" Fée ex Baker, in Hook. & Baker, Syn. Fil., 377. 1868 (invalid). Jamaica, Guadeloupe.
- Th. *consobrina* (Maxon & Morton) Tryon, *Rhodora*, 69: 5. 1967. Basionym: *Dryopteris consobrina* Maxon & Morton, Bull. Torr. Bot. Club, 65: 356. 1938. Peru.
- Th. *contermina* (Willd. in L.) Reed, comb. nov. Basionym: *Aspidium conterminum* Willd. in L., Sp. Pl., ed. 4, 5: 249. 1810. Trop. Amer.
- Th. *conterminoides* (C.Chr.) Reed, comb. nov. Basionym: *Dryopteris conterminoides* C.Chr., Ind. Fil., 258. 1905. Synonym: *Nephrodium simulans* Baker, Journ. Bot., 1890: 106. 1890. New Guinea.
- Th. *contigua* (Rosenst.) Reed, comb. nov. Basionym: *Dryopteris contigua* Rosenst., Med. Rijks. Herb. Leiden, No. 31: 8. 1917. Borneo, Malaya.
- Th. *contingens* Ching, in herb.; pro syn., in Ching, Acta Phytotax. Sinica, 8: 310. 1963. (*Macrothelypteris contingens* Ching, 1963).
- Th. *cooley* Proctor, *Rhodora*, 68: 468-469. 1966. St. Vincent.
- Th. *copelandii* Reed, nom. nov. Basionym: *Cyclosorus dimorphus* Copel., Philip. Journ. Sci., 83: 99, t. 5. 1954. Luzon.
- Th. *cordata* (Fée) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 59. 1953. Basionym: *Phegopteris cordata* Fée, Gen. Fil., 244. 1850-1852. Synonym: *Polypodium cubanum* Baker in Hook. & Bak., Syn. Fil., 304. 1867. West Indies (Cuba, Puerto Rico, Jamaica), Mexico.
- Th. *coriacea* (Brause) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 251. 1941. Basionym: *Dryopteris coriacea* Brause, Engl. Bot. Jahrb., 56: 83. 1920. New Guinea.
- Th. *cornuta* (Maxon) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 251. 1941. Basionym: *Dryopteris cornuta* Maxon, Journ. Wash. Acad. Sci., 19: 245, fig. 1924. Tahiti.
- Th. *costata* (Brack.) Reed, comb. nov. Basionym: *Goniopteris costata* Brack., Expl. Exp., 16: 28. 1854. Society Isls. (Fiji).
- Th. *costulisora* (Copel.) Reed, comb. nov. Basionym: *Lastrea costulisora* Copel., Gen. Fil., 138. 1947. Synonym: *Dryopteris basisora* Copel., Philip. Journ. Sci., 6: 73. 1911, non *D. basisora* Christ, 1909. New Guinea.
- Th. *crassa* (Copel.) Reed, comb. nov. Basionym: *Dryopteris crassa* Copel., Univ. Calif. Publ. Bot., 18: 220. 1942. New Guinea.
- Th. *crassifolia* (Blume) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 285. 1936. Basionym: *Aspidium crassifolium* Blume, Enum. Pl. Jav. 158. 1828. W. Malaysia - Malaya - Burma, Philippine Isls.
- Th. *crassifolia* var. *motleyana* (Hook.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 286. 1936. Basionym: *Nephrodium motleyanum* Hook., Syn. Fil., 266. 1867. Borneo, Malacca.
- Th. *crinipes* (Hook.) Reed, comb. nov. Basionym: *Nephrodium crinipes* Hook., Sp. Fil., 4: 71. 1862. N. India, Malacca.

Thelypteris cristata (L.) Nieuwl., Amer. Midl. Nat., 1: 226. 1910.
Basionym: Polypodium cristatum L., Sp. Pl., 1090. 1753. = Dryopteris.

Th. cristata var. clintoniana (D.C.Eaton) Weatherby, Rhodora, 21: 177. 1919. Basionym: Aspidium cristatum var. clintonianum D.C. Eaton, in A. Gray's Man., ed. 5: 665. 1867. = Dryopteris.

Th. cruciata (Willd.) Tard., Not. Syst., 15(1): 90-91. 1954. Basionym: Aspidium cruciatum Willd. in L., Sp. Pl., ed. 4, 5: 278. 1810. Synonyms: Phegopteris montbrisoniana Fée, Gen. Fil., 247. 1850-1852; Polypodium sessilifolium Hook., Sp. Fil., 4: 251. 1862; Polypodium bojeri Hook., Sp. Fil., 4: 20. 1862. Reunion, Seychelles, Maurice.

Th. crypta (Underw. et Maxon) Reed, comb. nov. Basionym: Polypodium cryptum Underw. et Maxon, Bull. Torr. Bot. Club, 29: 579, fig. 1902. Cuba.

Th. cumingiana (Kunze) Reed, comb. nov. Basionym: Aspidium cumingianum Kunze, l: 17, t. 19, f. 2. 1840. Panama.

Th. cuneata (C.Ch.) Reed, comb. nov. Basionym: Dryopteris cuneata C.Ch., Vid. Selsk. Skr., VII, 10: 253, f. 42. 1913. Brazil.

Th. curta (Christ) Reed, comb. nov. Basionym: Dryopteris curta Christ, Bull. Boiss., II, 7: 263. 1907. Costa Rica.

Th. cuspidata (Blume) K.Iwats., Mem. Coll. Sci., Univ. Kyoto, Ser. B, 31(3): 192. 1965. Basionym: Meniscium cuspidatum Blume, Enum. Pl. Jav., 114. 1828. Indochina (Tonkin, Annam), Himalayas, Malaccas, Philippine Isls.

Th. cyatheoides (Kaulf.) Fosberg, Occ. Papers Bishop Mus., 23(2): 30. 1962. Basionym: Aspidium cyatheoides Kaulf., Enum. Fil., 234. 1824. Hawaiian Isls., New Guinea, Sumatra.

Th. cyclolepis (C.Ch. et Tard.) Tagawa, Journ. Jap. Bot., 26: 20. 1951. Basionym: Athyrium cyclolepis C.Ch. et Tard., Bull. Mus. Paris, II, 6: 109, f. 3-4. 1934. Annam.

Th. cylindrothrix (Rosenst.) K.Iwats., Fl. Eastern Himalaya, 482. 1966. Basionym: Dryopteris cylindrothrix Rosenst., Fedde Report., 12: 246. 1913. Sikkim.

Th. cyrtocaulos (v.A.v.R.) Reed, comb. nov. Basionym: Dryopteris cyrtocaulos v.A.v.R., Bull. Brit., III, 5: 201. 1922. Sumatra.

Th. cystopteroides (D.C.Eaton) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 316. 1936. Basionym: Athyrium cystopteroides D.C.Eaton, Proc. Amer. Acad., 4: 110. 1858. Synonym: Dryopteris abbrevi-atipinna Makino et Ogata, Journ. Jap. Bot., 6: 10. 1929. Japan, Korea, Taiwan.

Th. debilis (Mett.) Reed, comb. nov. Basionym: Phegopteris debilis Mett., Ann. Ludg. Bat., 1: 223, t. 6, f. 1. 1864. Amboina.

Th. decadens (Baker) Reed, comb. nov. Basionym: Nephrodium decadens Baker, Journ. Bot., 1886: 183. 1886. Fiji.

Th. decipiens (Clarke) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 335. 1936. Basionym: Nephrodium gracilescens var. decipiens Clarke, Trans. Linn. Soc., II, Bot. 1(8): 514, t. 65, f. 2. 1880. N. India.

- Thelypteris decora* (Domin) Reed, comb. nov. Basionym: Dryopteris decora Domin, Bibl. Bot., 85: 48. 1913. Australia (Queensland).
- Th. *decurrenti-alata* (Hook.) Reed, comb. nov. Basionym: Gymnogramma decurrenti-alata Hook., Sp. Fil., 5: 142, t. 294. 1864. Japan.
- Th. *decursive-pinnata* (van Hall) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 275. 1936. Basionym: Polypodium decursive-pinnatum van Hall, Nieuwe Verhandl. Nederl. Inst., 5: 204, tab. 1836. China, Japan, Tonkin, Kashmir.
- Th. *decursive-pinnata forma simplex* (H.Itô) Reed, comb. nov. Basionym: Phegopteris decursive-pinnata forma simplex H.Itô, Nova Flora Jap., 1: 154. 1939. Japan.
- Th. *decursive-pinnata forma truncata* (H.Itô) Reed, comb. nov. Basionym: Phegopteris decursive-pinnata forma truncata H.Itô, Nova Flora Jap., 1: 154. 1939. Japan.
- Th. *decussata* (L.) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 59. 1953. Basionym: Polypodium decussatum L., Sp. Pl., 2: 1093. 1753. West Indies, Jamaica; Amer. trop.
- Th. *decussata forma velutina* (Sodirol) Reed, comb. nov. Basionym: Polypodium velutinum Sodirol, Rec., 59. 1883; Crypt. Vasc. Quit., 292. 1893. Costa Rica - Fr. Guiana, Ecuador, Peru.
- Th. *deflexa* (Presl) Tryon, Rhodora, 69: 5. 1967. Basionym: Nephrodium deflexum Presl, Rel. Haenk., 1: 36, t. 5, f. 2. 1825. Synonyms: Dryopteris lindigii C.Chr., Ind. Fil., 275. 1905; Thelypteris lindigii (C.Chr.) Alston, Journ. Wash. Acad. Sci., 48: 233. 1958. Colombia - Peru.
- Th. *degener* (Christ) Reed, comb. nov. Basionym: Dryopteris canescens var. degener Christ, Philip. Journ. Sci., Bot. 2C: 199. 1907. Philippine Isls. (Luzon).
- Th. *degeneri* (Copel.) Reed, comb. nov. Basionym: Cyclosorus degeneri Copel., Journ. Arnold Arb., 30: 438. 1949. Fiji.
- Th. *dejecta* (Jenm.) Reed, comb. nov. Basionym: Nephrodium dejecta Jenm., Gard. Chron., III, 18: 640. 1895. Demerara, Brit. Guiana.
- Th. *delicatula* (Fée) Proctor, Rhodora, 61: 306. (1959) 1960. Basionym: Phegopteris delicatula Fée, 11^e Mem. Foug., 51, t. 20, f. 1. 1866. West Indies, Guadeloupe.
- Th. *deltiptera* (Copel.) Reed, comb. nov. Basionym: Dryopteris deltiptera Copel., Univ. Calif. Publ. Bot., 18: 220. 1942. New Guinea.
- Th. *deltoidea* (Swartz) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 59. 1953; (K.Iwats., Mem. Coll. Sci., Univ. Kyoto, Ser. B, 31(1): 31. 1964). Basionym: Polypodium deltoideum Swartz, Prodr., 133. 1788. West Indies, Jamaica.
- Th. *demerarana* (Baker) Reed, comb. nov. Basionym: Polypodium demeraranum Baker, Timehri, 5: 214. 1886. Brit. Guiana.
- Th. *densa* (Maxon) Tryon, Rhodora, 69: 5. 1967. Basionym: Dryopteris densa Maxon, Journ. Wash. Acad. Sci., 34: 25. 1944. Peru.
- Th. *densisera* (C.Chr.) Reed, comb. nov. (Murillo, Cat. Illus. Pl. de Cundinamarca, 2: 105. 1966 (nomen)). Basionym: Dryopteris densisera C.Chr., Ind. Fil., 261. 1905. Synonym: Aspidium costale Mett. ex Kuhn, Linnaea, 36: 111. 1869. Costa Rica - Colombia - Venezuela.

- Thelypteris dentata* (Forsk.) E.St. John, Amer. Fern Journ., 26: 44. 1936. (Allen, Fl. N. Zealand, 1: 52. 1961). Basionym: Polypodium dentatum Forsk., Fl. Aegypt.-Arab., 185. 1775. Synonyms: Polypodium molle Jacq., Collect., 3: 188. 1769; Icon. Fl. Rar., t. 64C. 1793; Dryopteris mollis (Jacq.) Hieron., Hedwigia, 46: 348. 1907; Dryopteris oblancifolia Tagawa, Acta Phytotax. Geobot., 5: 190. 1936; Aspidium natalense Fée, Mem. 8: 102. 1857; Nephrodium hispidulum Peter, Fedde Repert., Beih., 40: descr. 10, t. 4, f. 1-2. 1929. Pantropical: Yemen, Arabia, Trop. Africa (Ivory Coast, Oubangui, Zambesia, Mocambique), India, China, Thailand, Taiwan, Tonga, Palau, Galapagos Isls., Colombia, Paraguay, Uruguay, Argentina, Antilles.
- Th. dentata* var. *buchananii* Schelpe, Journ. S. Afr. Bot., 31(4): 265, f. 1d. 1965. Mocambique, Natal, Rhodesia
- Th. dentata* var. *violascens* (Link) Reed, comb. nov. Basionym: Aspidium violascens Link, Hort. Bot. Berol., 2: 115. 1833. Synonym: Cyclosorus dentatus var. *violascens* (Link) Abbiatti, Darwiniana, 13(2-4): 540, 545. 1964. Argentina, Brazil.
- Th. devolvens* (Baker) Reed, comb. nov. Basionym: Nephrodium devolvens Baker, Journ. Bot., 1885: 217. 1885. Brazil.
- Th. diaphana* (Brause) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 251. 1941. Basionym: Dryopteris diaphana Brause, Engl. Bot. Jahrb., 56: 80. 1920. New Guinea.
- Th. dicarpa* (Fée) Reed, comb. nov. Basionym: Nephrodium dicarpum Fée, Gen. Fil., 305. 1850-1852. Reunion.
- Th. dichrotricha* (Copel.) Reed, comb. nov. Basionym: Dryopteris dichrotricha Copel., Philip. Journ. Sci., 6C: 74. 1911. New Guinea.
- Th. dichrotrichoides* (v.A.v.R.) Reed, comb. nov. Basionym: Dryopteris dichrotrichoides v.A.v.R., Malayan Ferns Suppl. Corr., 48. 1917. Synonyms: Dryopteris dichrotricha Copel., Philip. Journ. Sci., 7C: 54. 1912; Dryopteris weberi Copel., Philip. Journ. Sci., 38: 135. 1929. Philippine Isls. (Mindanao).
- Th. dicksonioides* (Mett. ex Kuhn) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 251. 1941. Basionym: Phegopteris dicksonioides Mett. ex Kuhn, Linnaea, 36: 118. 1869. Hawaiian Isls., Tahiti.
- Th. dicranogramma* (v.A.v.R.) Reed, comb. nov. Basionym: Dryopteris dicranogramma v.A.v.R., Bull. Buit., III, 5: 202. 1922. Sumatra, Malaya.
- Th. didymochlaenoides* (Clarke) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 325. 1936. Basionym: Nephrodium gracilescens var. didymochlaenoides Clarke, Trans. Linn. Soc. Lond., II. Bot. 1(8): 514, t. 68, f. 2. 1880. N. India.
- Th. didymosora* (Parish in Bedd.) Reed, comb. nov. Basionym: Nephrodium didymosorum Parish in Bedd., Ferns Brit. India, t. 200. 1866. Tenasserim, Perak, Singapore.
- Th. dilatata* (Hoffm.) House, New York State Mus. Bull., 233-234: 69. 1922. Basionym: Polypodium dilatatum Hoffm., Deutsch. Fl., 2: 7. 1795. = *Dryopteris*.

- Thelypteris dilatata var. americana (Fisch. ex Kunze) House, New York State Mus. Bull. 233-234: 69. 1922. Basionym: Aspidium spinulosum var. americanum Fisch. ex Kunze, Amer. Journ. Sci., II, 6: 84. 1848. = Dryopteris.
- Th. diminuta (Copel.) Reed, comb. nov. Basionym: Dryopteris diminuta Copel., Philip. Journ. Sci., 40: 298. 1929. Mindanao.
- Th. dimorpha (Brause) Reed, comb. nov. Basionym: Dryopteris dimorpha Brause, Engl. Bot. Jahrb., 56: 100. 1920. New Guinea.
- Th. diplazioides (Moritz ex Mett.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 251. 1941. Basionym: Aspidium diplazioides Moritz ex Mett., Pheg. u. Asp., 83, no. 200. 1858 (Abh. Senskenb. Ges. Frankfurt, 2: 367. 1858). Colombia, Venezuela.
- Th. diplazioides (Desv.) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 59. 1953. Basionym: Gymnogramma diplazioides Desv., Mem. Soc. Linn. Paris, 6: 214 (diplazoides). 1827. = Th. linkiana.
- Th. dissimulans (Maxon et C.Ch. ex C.Ch.) Reed, comb. nov. Basionym: Dryopteris dissimulans Maxon et C.Ch. ex C.Ch., Vid. Selsk. Skr., VII, 10: 215. 1913. Cuba.
- Th. distans (Hook.) Reed, comb. nov. Basionym: Nephrodium distans Hook., Sp. Fil., 4: 76 (adnota). 1862. Madagascar, Comores.
- Th. distincta (Copel.) Reed, comb. nov. Basionym: Dryopteris distincta Copel., Univ. Calif. Publ. Bot., 18: 220. 1942. New Guinea.
- Th. divergens (Rosenst.) Reed, comb. nov. Basionym: Dryopteris divergens Rosenst., Fedde Repert., 13: 218. 1914. Sumatra.
- Th. diversiloba (Presl) Reed, comb. nov. Basionym: Nephrodium diversilobum Presl, Epim. Bot., 47. 1849. Luzon, Mindanao.
- Th. diversisora (Copel.) Reed, comb. nov. Basionym: Dryopteris diversisora Copel., Occ. Papers Bishop Mus., 14: 54, t. 6. 1938. Rapa Isl.
- Th. diversivenosa (v.A.v.R.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 251. 1941. Basionym: Dryopteris diversivenosa v.A.v.R., Bull. Buit., II, No. 28: 23. 1918. Sumatra.
- Th. doodioides (Copel.) Reed, comb. nov. Basionym: Dryopteris doodioides Copel., Philip. Journ. Sci., 60: 107, t. 11. 1936. Solomon Isls.
- Th. dryopteris (L.) Slosson ex Rydb., Fl. Rocky Mts., 1044. 1917. Basionym: Polypodium dryopteris L., Sp. Pl., 1093. 1753. = Dryopteris linnaeana.
- Th. dryopteroides (Brause) Reed, comb. nov. Basionym: Alsophila dryopteroides Brause, Engl. Bot. Jahrb., 56: 70. 1920. Synonyms: Cyathea atrispora Domin, Acta Bohem., 9: 95. 1930; Dryopteris atrispora (Domin) C.Ch., Brittonia, 2: 296. 1937. New Guinea.
- Th. duclouxii (Christ) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 303. 1936. Basionym: Dryopteris duclouxii Christ, Bull. Acad. Geogr. Bot. Mans, 139. 1907. China.
- Th. dumetorum (Maxon) Tryon, Rhodora, 69: 5. 1967. Basionym: Dryopteris dumetorum Maxon, Journ. Wash. Acad. Sci., 34: 26. 1944. Peru.

- Thelypteris duplosetosa* (Copel.) Reed, comb. nov. Basionym: Cyclosorus duplosetosus Copel., Philip. Journ. Sci., 81: 31. 1952. Philippine Isls. (Palawan).
- Th. dura* (Copel.) Reed, comb. nov. Basionym: Dryopteris dura Copel., Leaflets Philip. Bot., 3: 805. 1910. Philippine Isls. (Mindanao).
- Th. ecallosa* (Holtz.) Reed, comb. nov. Basionym: Cyclosorus ecallosus Holtz., Gard. Bull. Singapore, 11: 269. 1947. Malay Penin. (Pahang).
- Th. echinata* (Mett.) Reed, comb. nov. Basionym: Aspidium echinatum Mett., Ann. Ludg. Bot., 1: 230. 1864. Malaya, New Guinea.
- Th. echinospora* (v.A.v.R.) Reed, comb. nov. Basionym: Dryopteris echinospora v.A.v.R., Bull. Buit., III, 2: 149. 1920. Sumatra.
- Th. edanyoi* (Copel.) Reed, comb. nov. Basionym: Cyclosorus edanyoi Copel., Philip. Journ. Sci., 81: 37. 1952. Philippine Isls. (Panay).
- Th. eggersii* (Hieron.) Reed, comb. nov. Basionym: Nephrodium eggersii Hieron., Engl. Bot. Jahrb., 34: 441. 1904. Colombia.
- Th. elata* (Mett. ex Kuhn) Schelpe, Journ. S. Afr. Bot., 31(4): 265. 1965. Basionym: Aspidium elatum Mett. ex Kuhn, Fil. Afr., 131. 1868. Synonym: Nephrodium venulosum Hook., Sp. Fil., 4: 71. 1862, non Desv., 1827. Mocambique, Guinea cum insulis, Fernando Po.
- Th. elegantula* (Sodiho) Alston, Journ. Wash. Acad. Sci., 48(7): 233. 1958. Basionym: Nephrodium elegantulum Sodiho, Crypt. Vasc. Quit., 243. 1893. Colombia, Ecuador.
- Th. elliptica* (Rosenst.) Reed, comb. nov. Basionym: Dryopteris elliptica Rosenst., Med. Rijks Herb., No. 31: 6. 1917. Philippine Isls.
- Th. elmerorum* (Copel.) Reed, comb. nov. Basionym: Dryopteris elmerorum Copel., Philip. Journ. Sci., 40: 295, t. 2. 1929. Philippine Isls. (Mindanao).
- Th. elwesii* (Bak. in Hook. et Bak.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 308. 1936. Basionym: Nephrodium elwesii Bak. in Hook. et Bak., Syn. Fil., 497. 1874. Sikkim.
- Th. engelii* (Hieron.) Morton, Fieldiana, Bot., 28: 11. 1951. Basionym: Dryopteris engelii Hieron., Hedwigia, 46: 339, t. 6, f. 12. 1907. Synonym: Dryopteris pittieri C.Chr., Smiths. Misc. Coll., 52: 393. 1909. Venezuela, Colombia.
- Th. engleriana* (Brause) Reed, comb. nov. Basionym: Dryopteris engleriana Brause, Engl. Bot. Jahrb., 49: 19. 1912. New Guinea.
- Th. ensifer* (Tagawa) K.Iwats., Acta Phytotax. Geobot., 21: 40. 1964. Basionym: Dryopteris ensifer Tagawa, Acta Phytotax. Geobot., 6: 89. 1937. Synonym: Dryopteris sophoroides forma ensipinna Hayata, Icon. Pl. Formos., 4: 180. 1914. Taiwan.
- Th. ensiformis* (C.Chr.) Tryon, Rhodora, 69: 6. 1967. Basionym: Dryopteris ensiformis C.Chr., Danske Vid. Selsk. Skr., VII, Naturv. Afd., 10(2): 269, f. 46. 1913. Costa Rica.
- Th. ensipinna* (Brause) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 251. 1941. Basionym: Dryopteris ensipinna Brause, Engl. Bot. Jahrb., 56: 84. 1920. New Guinea.

- Thelypteris epaleata* (C.Chr.) Reed, comb. nov. Basionym: *Dryopteris epaleata* C.Chr., Ind. Fil. Suppl. III: 85. 1934. Synonym: *Dryopteris francii* Copel., Univ. Calif. Publ. Bot., 14: 357. 1929, non C.Chr., 1925. New Caledonia.
- Th. equitans* (Christ) Reed, comb. nov. Basionym: *Nephrodium equitans* Christ, Bull. Boiss., II, 6: 163. 1906. Costa Rica.
- Th. erecta* (Copel.) Reed, comb. nov. Basionym: *Cyclosorus erecta* Copel., Philip. Journ. Sci., 81: 30, t. 22. 1952. Philippine Isls. (Leyte).
- Th. erubescens* (Wall. ex Hook.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 293. 1936. Basionym: *Polypodium erubescens* Wall. ex Hook., Sp. Fil., 4: 236. 1862. Synonym: *Dryopteris reflexa* Ching, Bull. Fan Mem. Inst. Biol., Bot. 2: 193. 1931. N. India, SW China, Malaya, Laos, Tonkin, Taiwan.
- **Th. escheri* (Heer) Reed, comb. nov. Basionym: *Aspidium escheri* Heer, Tertiärl. der Helvetiae (Schweiz), 1: 36, t. 10, f. 2. 1855; l.c., 3: 153, t. 144, f. 9. 1859; Ett., Die Farnkr. der Jetztwelt, 200. 1865. Synonym: *Dryopteris escheri* (Heer) LaMotte, Geol. Soc. Amer. Mem. 51: 151. 1952. Miocene: Switzerland (Upper Rhone). Aff. *Th. invisä* et *Th. multilineata*.
- Th. esquirolii* (Christ) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 301. 1936. Basionym: *Dryopteris esquirolii* Christ, Bull. Acad. Geogr. Bot. Man, 144. 1907. S. China, N. India, Taiwan, S. Korea, Japan (Honshu, Shikoku, Kyushu), Ryukyus.
- Th. esquirolii* var. *glabrata* (Christ) K.Iwats., Mem. Coll. Sci., Univ. Kyoto, Ser. B, 31(3): 182. 1965. Basionym: *Dryopteris eberhardtii* var. *glabrata* Christ, Not. Syst., 1: 37. 1909. Synonym: *Thelypteris subochthodes* Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 305. 1936. S. Honshu, Shikoku, Kyushu, Korea (Isl. Quelpaert), China.
- **Th. ettinghausenii* Reed, nom. nov. Basionym: *Goniopteris polypodioides* Ett., Denkschr. K. Akad. Wiss., Math.-Naturw. Cl., 8: 26, t. 2, f. 1-4, t. 3, f. 5. 1854. Synonyms: *Lastrea polypodioides* (Ett.) Heer, Fl. Tert. Helvetiae (Schweiz), 3: 151, t. 144, f. 1-3. 1859; *Phegopteris polypodioides* (Ett.) Ett., Die Farnkr. der Jetztwelt, 196. 1865. Eocene: Switzerland.
- Th. euchlora* (Sodiö) Reed, comb. nov. Basionym: *Polypodium euchlorum* Sodiö, Rec., 58. 1883; Crypt. Vasc. Quit., 290. 1893. Ecuador.
- Th. euchlora* var. *inaequans* (C.Chr.) Reed, comb. nov. Basionym: *Dryopteris euchlora* var. *inaequans* C.Chr., Kgl. Dansk. Vid. Selsk. Skr., 7: 150. 1913. Panama, Nicaragua.
- Th. eugracilis* (Copel.) Reed, comb. nov. Basionym: *Lastrea eugracilis* Copel., Gen. Fil., 138. 1947. Synonym: *Dryopteris gracilis* Copel., Philip. Journ. Sci., 40: 294. 1929. Mindanao.
- Th. euphlebia* (Ching) Reed, comb. nov. Basionym: *Cyclosorus euphlebius* Ching, Bull. Fan Mem. Inst. Biol., Bot. 8: 226. 1938. China (Kwangsi, Kweichow), Tonkin.
- **Th. europaeae* Reed, nom. nov. Basionym: *Pecopteris delicatula* Brongn., Hist. Veg. Foss., 1: 349, t. 116. 1828; Unger, Gen. et Sp. Pl. Foss., 181. 1850. Synonym: *Aspidium delicatulum* (Brongn.) Ett., Die Farnkr. der Jetztwelt, 198. 1865. Upper Carboniferous: France (Fresnes), Germany (Saarbrück); Switzerland. Aff. *Th. conterminum* et *Th. calcarata*.

- Thelypteris eurostotricha* (Baker) Reed, comb. nov. Basionym: Nephrodium eurostotrichum Baker, Journ. Bot., 1280: 329. 1880. Madagascar.
- Th. euryphylla* (Rosenst.) Reed, comb. nov. Basionym: Dryopteris euryphylla Rosenst., Med. Rijks Herb. No. 31: 7. 1917. Sumatra.
- Th. evoluta* (Bedd.) Reed, comb. nov. Basionym: Nephrodium evolutum Bedd., Handb. Suppl., 76. 1892. N. India.
- Th. exigua* (Kunze ex Mett.) Reed, comb. nov. Basionym: Aspidium exiguum Kunze ex Mett., Phleg. u. Asp., 76, no. 180. 1858; Haplodictyum exiguum Fée, Gen. Fil., 309. 1850-1852 (nom. confus.); Lastrea exigua J.Sm., Journ. Bot., 3: 412. 1841 (nomen). Synonym: Phegopteris nervosa Fée, Gen. Fil., 244. 1850-1852. Philippines.
- Th. extensa* (Blume) Morton, Amer. Fern Journ., 49: 113. 1959. Basionym: Aspidium extensum Blume, Enum. Pl. Jav., 156. 1828. Synonym: Nephrodium wakefieldii Baker, Ann. Bot., 5: 326. 1891. Trop. Asia, Melanesia, Micronesia, N. Australia, E. Africa (Kenya), S. India, Ceylon, Burma-Malesia, Tonga, Java, Philippine Isls.
- Th. falcata* (Liebm.) Tryon, Rhodora, 69: 6. 1967. Basionym: Menisium falcatum Liebm., Dansk. Vid. Selk. Skr., V, 1: 183. 1849. Synonym: Dryopteris jurgensenii Maxon et Morton, Bull. Torr. Bot. Club, 65: 360. 1938. Mexico.
- Th. falcatipinnula* (Copel.) Reed, comb. nov. Basionym: Dryopteris falcatipinnula Copel., Philip. Journ. Sci., 6: 74. 1911. New Guinea.
- Th. falcatula* (Christ) Reed, comb. nov. Basionym: Dryopteris parasitica var. falcatula Christ, Philip. Journ. Sci., 20: 147. 1907. Philippine Isls. (Mindanao, Palawan).
- Th. falciloba* (Hook.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 298. 1936. Basionym: Lastrea falciloba Hook., Journ. Bot., 9: 337. 1856. Himalayas, Burma, Tonkin, China.
- Th. farinosa* (Brause) Reed, comb. nov. Basionym: Dryopteris farinosa Brause, Engl. Bot. Jahrb., 56: 111. 1920. New Guinea.
- Th. fasciculata* (Fourn.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 251. 1941. Basionym: Aspidium fasciculatum Fourn., Ann. Sci. Nat., V, 18: 295. 1873. New Caledonia.
- Th. fatuhivensis* (E. Brown in E. et F. Brown) Ching, Bull. Fan. Mem. Inst. Biol., Bot. 10: 251. 1941. Basionym: Dryopteris fatuhivensis E. Brown in E. et F. Brown, Bernice P. Bishop Mus. Bull., 89: 27, f. 8. 1931. Marquesas.
- Th. feei* Moxley, Bull. So. Calif. Acad. Sci., 20: 35. 1921. = *Th. puberula*.
- Th. fendleri* (D.C. Eaton) Reed, comb. nov. Basionym: Aspidium fendleri D.C. Eaton, Mem. Amer. Acad., n.s., 8: 210. 1860. Venezuela, Colombia.
- Th. ferox* (Blume) Reed, comb. nov. Basionym: Aspidium ferox Blume, Enum. Pl. Jav., 153. 1828. S. Thailand, Malesia - Philippine Isls., Perak, ?Kumaoan.
- Th. filix-mas* (L.) Nieuwl., Amer. Midl. Nat., 1: 226. 1910. Basionym: Polypodium filix-mas L., Sp. Pl., 1090. 1753. = *Dryopteris*.

- Thelypteris finisterrae* (Brause) Reed, comb. nov. Basionym: Dryopteris finisterrae Brause, Engl. Bot. Jahrb., 49: 20. 1912. New Guinea.
- Th. firma* (Baker ex Jenm.) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 60. 1953. Basionym: Nephrodium firmum Bak. ex Jenm., Journ. Bot., 1879: 260. 1879. Jamaica.
- Th. formula* (Baker) K. Iwats., Acta Phytotax. Geobot., 21(5-6): 170. 1965. Basionym: Polypodium formulum Baker, Kew Bull., 1893: 211. 1893. Borneo.
- **Th. fischeri* (Heer) Reed, comb. nov. Basionym: Lastrea (Goniopteris) fischeri Heer, Fl. Tert. Helv., 1: 34, t. 9, f. 3. 1855. Synonyms: Cyclosorus fischeri (Heer) Kolakovskii, Akad. Nauk Gruzinskoi SSR, Sukhum Bot. Sad, Monografii 1(1964): 23, t. 1, f. 1. 1964; Lastrea knightiana Newberry, U.S. Nat. Mus. Proc., 5: 503. 1882 (1883); Aspidium goldianum Lesq., 7th Ann. Rept., U.S. Geol. Surv. Terr., 393. 1873 (1874); Dryopteris integra Knowlton, U.S. Geol. Surv., Prof. Paper 155: 17, t. 1, f. 5. 1930; Dryopteris lesquereuxii Knowlton, Bull. U.S. Geol. Surv., 696: 284. 1919 (1920); Dryopteris richardsoniana Knowlton, U.S. Geol. Surv., Prof. Paper 155: 20, t. 2, f. 3-5. 1930. Eocene: Oregon, Alberta, British Columbia, Colorado; Pliocene: Georgia in SSR; Cretaceous: Colorado.
- Th. flaccida* (Blume) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 336. 1936. Basionym: Aspidium flaccidum Blume, Enum. Pl. Jav., 161. 1828. Malaya - India - China, Japan.
- Th. flavovirens* (Rosenst.) Reed, comb. nov. Basionym: Dryopteris flavovirens Rosenst., Fedde Repert., 10: 334. 1912. New Guinea.
- Th. flexilis* (Christ) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 283. 1936. Basionym: Aspidium flexile Christ, Bull. Acad. Geogr. Bot. Mans, 1902: 252. 1902. China (Szechwan, Kweichow). Synonyms: Aspidium melanorhizum Christ, Bull. Soc. Bot. Ital., 1901: 295. 1901, non Desv., 1827; Dryopteris subthelypteris C. Chr., Ind. Fil., 296. 1905.
- Th. forsteri* Morton, Contrib. U.S. Nat. Herb., 38(2): 60. 1967. Basionym: Polypodium invisum G. Forst., Fl. Ins. Austr. Prodr., 1786. Tahiti, Polynesia.
- Th. foxii* (Christ) Reed, comb. nov. Basionym: Dryopteris foxii Christ, Philip. Journ. Sci., 2C: 208. 1907; (Nephrodium foxii Copel., mss.). Philippine Is. (Luzon - Mindanao).
- Th. fragilis* (Baker) Alston, Bol. Soc. Broter., 2 ser., 30: 25. 1956. Basionym: Polypodium fragile Baker, Journ. Linn. Soc., 16: 203. 1877, non L. Synonym: Dryopteris fragilis (Bak.) C. Chr., Ind. Fil., 266. 1905; Phegopteris fragilis Kuhn, v. Deck. Reis, 3(3): Bot. 66. 1879. Madagascar. (Probably should be based on Kuhn).
- Th. fragrans* (L.) Nieuwl., Amer. Midl. Nat., 1: 226. 1910. Basionym: Polypodium fragrans L., Sp. Pl., 1089. 1753. = *Dryopteris*.
- Th. fragrans* var. hookeriana Fernald, Rhodora, 25: 3. 1923. = *Dryopteris*.

- Thelypteris francoana* (Fourn.) Reed, comb. nov. Basionym: Aspidium francoanum Fourn., Bull. Soc. Bot. France, 19: 255. 1872. Nicaragua, Costa Rica, Ecuador.
- Th. *friesii* (Brause) Schelpe, Bol. Soc. Broteriana, Ser. 2A, 41: 216. 1967 (1968). Basionym: Dryopteris friesii Brause in Fries, Wiss. Ergebn. Schwed. Rhodesia-Congo Exped. 1911-12, Bot. 1: 1. 1914. Rhodesia.
- Th. *fukienensis* (Ching) Reed, comb. nov. Basionym: Cyclosorus fukienensis Ching, Bull. Fan Mem. Inst. Biol., Bot. 8: 209. 1938. China (Fukien).
- Th. *fulgens* (Brause) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 251. 1941. Basionym: Dryopteris fulgens Brause, Engl. Bot. Jahrb., 56: 89. 1920. New Guinea.
- Th. *funckii* (Mett. in Triana et Planch.) Alston, Journ. Wash. Acad. Sci., 43(7): 233. 1958. Basionym: Aspidium funckii Mett. in Triana et Planch., Ann. Sci. Nat., V, 2: 246. 1864. Colombia, Venezuela, Peru, Ecuador, Costa Rica.
- Th. *funestra* (Kunze) Alston, Kew Bull. 1932: 309. 1932. Basionym: Aspidium funestrum Kunze, Linnaea, 9: 96. 1834. = *Ctenitis protensa* var. *funestra*.
- Th. *furva* (Maxon) Tryon, Rhodora, 69: 6. 1967. Basionym: Dryopteris furva Maxon, Journ. Wash. Acad. Sci., 34: 24. 1944. Peru.
- Th. *galanderi* (Hieron.) Abbiatti, Darwiniana, 13(2-4): 566. 1964. Basionym: Aspidium galanderi Hieron., Engl. Bot. Jahrb., 22: 369. 1896 (1897). Argentina.
- Th. *gardneriana* (Baker) Reed, comb. nov. Basionym: Nephrodium gardnerianum Baker, Fl. Bras., 1(2): 474. 1870; (Aspidium gardnerianum Kunze, msc.). Synonym: Dryopteris densiloba C.Chr., Ind. Fil., 261. 1905. Brazil.
- Th. *germaniana* (Fée) Proctor, Rhodora, 61: 306. (1959) 1960. Basionym: Phegopteris germaniana Fée, 11 Mem. Foug., 55, t. 13, f. 2. 1866. West Indies, Cuba, Guadeloupe.
- Th. *ghiesbreghtii* (Hook.) Morton, Contrib. U.S. Nat. Herb., 38(2): 45. 1967. Basionym: Polypodium crenatum var. ghiesbreghtii Hook., Sp. Fil., 5: 3. 1864. Synonym: Goniopteris mollis Fée, Gen. Fil., 252. 1850-1852. Mexico - Panama.
- Th. *gigantea* (Mett.) Tryon, Rhodora, 69: 6. 1967; Morton, Contrib. U.S. Nat. Herb., 38(2): 51. 1967. Basionym: Menisium giganteum Mett., Fil. Lechl., 1: 19. 1856. Synonym: Dryopteris simplicifrons C.Chr., Ind. Fil., 486. 1906. Peru.
- Th. *glabra* (Brack.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 251. 1941. Basionym: Lastrea glabra Brack., Exped. Exp., 16: 200. 1854. Hawaii, Tahiti.
- Th. *glabrata* (Mett. ex Kuhn) Tard., Not. Syst., 14: 344. 1952; Mem. IFAN, 28: 120. 1953. Basionym: Aspidium glabratum Mett. ex Kuhn, Fil. Afr., 133. 1868. = *Athyrium*.
- Th. *glabrata* var. *hirsuta* Tard., Not. Syst., 14: 344. 1952.
- Th. *glandulifera* (Brack.) Reed, comb. nov. Basionym: Goniopteris glandulifera Brack., Expl. Exp., 16: 29. 1854. Samoan Isls. (Tutuila).

- Thelypteris glanduligera* (Kunze) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 320. 1936. Basionym: Aspidium glanduligerum Kunze, Anal. Pterid., 44. 1837. Synonym: Dryopteris thelypteris var. koreana Nakai, Bot. Mag. Tokyo, 45: 97. 1931. Himalayas - Japan.
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- Thelypteris pachyrachis* var. *bogatensis* (C.Chr.) Alston, Journ. Wash. Acad. Sci., 48(7): 233. 1958. Basionym: *Dryopteris pachyrachis* var. *bogatensis* C.Chr., Kgl. Dansk. Vid. Selsk. Skr., VII, 4: 306. 1907. Colombia.
- Th. *pachyrachis* var. *jenmani* (Baker) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 63. 1953. Basionym: *Nephrodium jenmani* Baker ex Jenm., Journ. Bot., 15: 263. 1877. Jamaica.
- Th. *pacifica* Reed, nom. nov. Basionym: *Polypodium clarkei* Baker, Ann. Bot., 5: 457. 1891, non *Pleocnemia clarkei* Bedd., 1876. Hawaiian Isls.
- Th. *palauensis* (Hosok.) Reed, comb. nov. Basionym: *Meniscium palauense* Hosok., Trans. Nat. Hist. Soc. Formosa, 28: 148. 1938. Palau Isl.
- Th. *palawanensis* Reed, nom. nov. Basionym: *Cyclosorus subdimorphus* Copel., Philip. Journ. Sci., 81: 38. 1952. Philippine Isls. (Palawan).
- Th. *paleata* (Copel.) Holtt., Rev. Fl. Mal., 2: 249, f. 141. (1954) 1955. Basionym: *Dryopteris paleata* Copel., Philip. Journ. Sci., 9C: 228. 1914. Sumatra, Borneo, Malaya.
- *Th. *paleoelegans* Reed, nom. nov. Basionym: *Pecopteris arguta* Brongn., Hist. Veg. Foss., 1: 303, t. 108, f. 3. 1828, non *Aspidium arguta* Kaulf., 1824. Synonyms: *Phegopteris arguta* (Brongn.) Ett., Die Farnkr. der Jetztwelt, 195. 1865; *Pecopteris elegans* Germar, Petref., 39, t. 15. 1844, non *Pecopteris elegans* Sternb., 1821; *Polypodites elegans* (Germar) Goepf., Syst. Fil. Foss., 344, t. 15, f. 10. 1836; Unger, Gen. et Sp. Pl. Foss., 168. 1850. Carboniferous: France, Germany; Rhode Island. Aff. Th. *decussata* et Th. *meniscioides*.
- Th. *pallescens* (Brause) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 253. 1941. Basionym: *Dryopteris pallescens* Brause, Engl. Bot. Jahrb., 56: 88. 1920. New Guinea.
- Th. *paludosa* (Blume) K.Iwats., Acta Phytotax. Geobot., 19: 11. 1961. Basionym: *Aspidium paludosum* Blume, Enum. Pl. Jav., 163. 1828. Synonyms: *Polypodium pyrrohorhachis* Kunze, Linnaea, 24: 257. 1851; *Polypodium distans* D.Don, Prodr. Fl. Nepal., 2. 1825, non Kaulf. 1824; *Dryopteris brunnea* Wall. ex C.Chr., Ind. Fil., 255. 1905; *Dryopteris somai* Hayata, Icon. Pl. Formos., 5: 287. 1915; *Dryopteris christii* Lévl., Fl. Kouy-Tscheou, 491. 1915; *Dryopteris hirtirachis* C.Chr., Ind. Fil. Suppl., II: 15. 1917. Malaysia, N. India - Taiwan, S. China, Tonkin, Luzon, Polynesia.
- Th. *palustris* Schott, Gen. Fil. in Obs. sub t. 10. 1834. Synonym: *Acrostichum thelypteris* L., Sp. Pl., 2: 1071. 1753; *Polypodium palustre* Salisb., Prodr., 403. 1796 (nom. illegit.). Semi-cosmopolitan (Europe, Algeria, Asia temp., Himalaya, Cent. China, S. India, Atl. N. Amer., Trop. Africa, New Zealand). (An Th. *confluens* (Thunb.) Morton, 1967).
- Th. *palustris* forma *afurcata* Clute, Our Ferns, 151, 387. 1938. = Th. *palustris* var. *pubescens*.
- Th. *palustris* forma *glabra* H.Itô in Nakai et Honda, Nova Flora Jap., 1: 127 (nota). 1939. Europe, Manchuria, Korea.

- Thelypteris palustris* var. *haleana* Fernald, *Rhodora*, 31: 34. 1929. Florida to Louisiana, N to Pennsylvania; Bermuda.
- Th. palustris* forma *pubescens* (Lawson) Clute, *Our Ferns*, 152, 387. 1938. Basionym: *Lastrea thelypteris* (pubescens Lawson, *Edinb. New Phil. Journ.*, n.s., 19: 277. 1864. = *Th. palustris* var.
- Th. palustris* var. *pubescens* (Lawson) Fernald, *Rhodora*, 31: 34, t. 160. 1929. Basionym: *Lastrea thelypteris* (pubescens Lawson, *Edinb. New Phil. Journ.*, n.s., 19: 277. 1864. Newfoundland to Manitoba, S to Georgia and Oklahoma; N.E.Asia (Kamtschatka).
- Th. palustris* var. *pubescens* forma *linearis* (Farwell) Reed, comb. nov. Basionym: *Filix thelypteris* var. *linearis* Farwell, *Papers Mich. Acad. Sci.*, 2: 14. 1923. Michigan.
- Th. palustris* var. *pubescens* forma *pufferae* (A.A.Eaton) Reed, comb. nov. Basionym: *Nephrodium thelypteris* forma *pufferae* A.A.Eaton, *Fern Bull.*, 10: 78. 1902. E. Massachusetts.
- Th. palustris* var. *pubescens* forma *suaveolens* (Clute) Reed, comb. nov. Basionym: *Nephrodium thelypteris* forma *suaveolens* Clute, *Fern Bull.*, 18: 87. 1910. Nova Scotia, New Hampshire.
- Th. palustris* forma *pufferae* (A.A.Eaton) L.B.Smith, *Rhodora*, 30: 16. 1928. Basionym: *Nephrodium thelypteris* forma *pufferae* A.A.Eaton, *Fern Bull.*, 10: 78. 1902. = *Th. palustris* var. *pubescens* forma.
- Th. palustris* var. *squamigera* (Schlecht.) Weatherby in Johnston, *Contrib. Gray Herb.*, 73: 40. 1924; Tard., *Mem. IFAN*, 28: 119, t. 20, f. 7-8. 1953. Basionym: *Aspidium thelypteris* var. *squamigerum* Schlecht., *Adumbr.*, 23, t. 11. 1825. = *Th. confluens*.
- Th. palustris* forma *suaveolens* (Clute) Fernald, *Rhodora*, 23: 165. 1921. Basionym: *Nephrodium thelypteris* forma *suaveolens* Clute, *Fern Bull.*, 18: 87. 1910. = *Th. palustris* var. *pubescens* forma.
- Th. palustris* Schott, var. *typica*; Fernald, *Rhodora*, 31: 33. 1929.
- Th. panamensis* (Presl) E.P.St. John, *Amer. Fern Journ.*, 26: 44. 1936. Basionym: *Nephrodium panamense* Presl, *Rel. Haenk.*, 1: 35. 1825. (Mexico-Panama, Cuba, Jamaica). = *Th. resinifera*.
- Th. papilio* (Hope) K.Iwats., *Mem. Coll. Sci., Univ. Kyoto*, Ser. B, 31(3): 175. 1965. Basionym: *Nephrodium papilio* Hope, *Journ. Bombay Nat. Hist. Soc.*, 12: 625, t. 12. 1899. Himalaya, Sikkim, N. India, Assam, Ceylon, Taiwan.
- Th. papyracea* (Bedd.) Reed, comb. nov. Basionym: *Nephrodium papyraceum* Bedd., *Handb. Suppl.*, 69. 1892. N. India.
- Th. paraphysata* (Copel.) Reed, comb. nov. Basionym: *Dryopteris paraphysata* Copel., *Philip. Journ. Sci., Bot.* 6: 74. 1911. New Guinea.
- Th. parasitica* (L.) Tard. in Tard. et C.Chr., *Not. Syst.*, Paris, 7: 75. 1938; Fosberg, *Occ. Pap. Bish. Mus.*, 23(2): 30. 1962; K.Iwats., *Journ. Jap. Bot.*, 38: 315. 1963. Basionym: *Polypodium parasiticum* L., *Sp. Pl.*, 2: 1090. 1753. Synonym: *Dryopteris mollis* var. *subglabra* Hosok., *Trans. Nat. Hist. Soc. Formos.*, 26: 78. 1936. Southeast Asia, China (Yunnan, Kwangtung), S. Japan, Taiwan, Caroline Isls., New Zealand, trop. and subtrop. Atl. Isls.

- Thelypteris parasitica* forma *boninensis* (H.Itô) Reed, comb. nov. Basionym: Cyclosorus parasiticus forma boninensis H.Itô, Bot. Mag. Tokyo, 51: 727. 1937. Bonin Isls.
- Th. *parasitica* var. *formosana* (Ching) Reed, comb. nov. Basionym: Cyclosorus parasiticus var. formosanus Ching, Bull. Fan Mem. Inst. Biol., Bot. 8: 205. 1938. Taiwan.
- Th. *parasitica* forma *latiloba* (H.Itô) Reed, comb. nov. Basionym: Cyclosorus parasiticus forma latilobus H.Itô, Bot. Mag. Tokyo, 51: 727. 1937. Bonin Isls.
- Th. *parasitica* forma *pilosissima* (H.Itô) Reed, comb. nov. Basionym: Cyclosorus parasiticus forma pilosissimus H.Itô, Bot. Mag. Tokyo, 51: 727. 1937. Japan (Ryukyus).
- Th. *parasitica* forma *subglabra* (Hosok.) Reed, comb. nov. Basionym: Dryopteris mollis var. subglabra Hosok., Trans. Nat. Hist. Soc. Formos., 26: 78. 1936. Japan (Sikoku, Kyushu, Ryukyus).
- Th. *parathelypteris* (Christ) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 314. 1936. Basionym: Aspidium parathelypteris Christ, Bull. Soc. Bot. France, 52 (Mem. 1): 36. 1905. China.
- Th. *paripinnata* (Copel.) Reed, comb. nov. Basionym: Dryopteris paripinnata Copel., Univ. Calif. Publ. Bot., 18: 220. 1942. New Guinea.
- Th. *patens* (Swartz) Small, Ferns S.E. States, 243, 475, tab. 1938. Basionym: Polypodium patens Swartz, Prodr., 133. 1788. West Indies, Mexico to Argentina and Paraguay, Galapagos Isls.
- Th. *patens* var. *dependens* (C.Chr.) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 63. 1953. Basionym: Dryopteris patens var. dependens C.Chr., Dansk Vid. Selsk. Skr., VII, 10: 178. 1913. Jamaica.
- Th. *pauciflora* (Hook.) Reed, comb. nov. Basionym: Meniscium pauciflorum Hook., Sp. Fil., 5: 164. 1964. (Menisorus Alston, 1956). Trop. West Africa.
- Th. *paucinervata* (C.Chr.) Reed, comb. nov. Basionym: Dryopteris paucinervata C.Chr., Ind. Fil., 283. 1905. Synonym: Polypodium oligophlebium Baker in Hook. et Baker, Syn. Fil., 506. 1874, non P. oligophlebium Kunze, 1850. Peru.
- Th. *paucipinnata* (Donn.Smith) Reed, comb. nov. Basionym: Nephrodium fendleri var. paucipinnatum Donn.Smith, Bot. Gaz., 12: 134. 1887. Guatemala. Synonym: Dryopteris donnell-smithii Maxon, Contrib. U.S. Nat. Herb., 13: 19. 1909.
- Th. *pavoniana* (Klotzsch) Tryon, Rhodora, 69: 7. (Mar. 31). 1967; Crabbe, Brit. Fern Gaz., 9(8): 318. 1967. Basionym: Polypodium pavonianum Klotzsch, Linnaea, 20: 386. 1847. Peru.
- Th. *pectiniformis* (C.Chr.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 253. 1941. Basionym: Dryopteris pectiniformis C.Chr., Gard. Bull. Straits Settlements, 4: 379. 1929. Malaya, Perak.
- Th. *pectiniformis* var. *eglandulosa* Reed, nom. nov. *Rachis et costae eglandulosae* Malaya. (Holtt., Rev. Fl. Mal., 2: 254. (1954) 1955, nom. illegit.).
- Th. *pectiniformis* var. *hirsuta* Reed, nom. nov. *Pinnae subtus hirsutae*. Malaya, Padang. (Holtt., Rev. Fl. Mal., 2: 254. (1954) 1955, nom. illegit.).

- Thelypteris peltata* (v.A.v.R.) Reed, comb. nov. Basionym: *Dryopteris peltata* v.A.v.R., Bull. Jard. Bot. Buit., II, No. 16: 12. 1914. Sumatra.
- Th. peltochlamys* (C.Chr.) Reed, comb. nov. Basionym: *Dryopteris peltochlamys* C.Chr., Dansk Bot. Ark., 9: 65. 1937. Sumatra, Java, Malaya.
- Th. penangiana* (Hook.) Reed, comb. nov. Basionym: *Polypodium penangianum* Hook., Sp. Fil., 5: 13 (*panangianum*). 1863. China, N. India, Penang.
- Th. pennata* (Poir. in Lam.) Morton, Contrib. U.S. Nat. Herb., 38(2): 64. 1967. Basionym: *Polypodium pennatum* Poir. in Lam., Encycl. Meth., 5: 535. 1804. Synonyms: *Polypodium megalodus* Schkuhr, Kr. Gew., 1: 24, t. 19b. 1806; *Thelypteris megalodus* Proctor, 1953. Trop. Amer.
- Th. pennigera* (G.Forst.) Allan, Fl. N. Zeal., 51. 1961. Basionym: *Polypodium pennigerum* G.Forst. f., Prodr., 82. 1786. New Zealand, Polynesia, Philippine Isl.
- Th. pentaphylla* (Rosenst.) Reed, comb. nov. Basionym: *Dryopteris pentaphylla* Rosenst., Fedde Repert., 12: 529. 1913. New Guinea.
- Th. perakensis* (Bedd.) Reed, comb. nov. Basionym: *Aspidium perakense* Bedd., Journ. Bot., 1888: 4. 1888. Perak.
- Th. perglandulifera* (v.A.v.R.) Reed, comb. nov. Basionym: *Dryopteris perglandulifera* v.A.v.R., Bull. Buit., III, 2: 150. 1920. Sumatra.
- Th. peripae* (Sodiho) Reed, comb. nov. Basionym: *Nephrodium peripae* Sodiho, Rec., 52. 1883; Crypt. Vasc. Quit., 265. 1893. Ecuador.
- Th. perpilifera* (v.A.v.R.) Reed, comb. nov. Basionym: *Dryopteris perpilifera* v.A.v.R., Bull. Jard. Bot. Buit., II, No. 11: 12. 1913. New Guinea.
- Th. perpubescens* (Alston) Reed, comb. nov. Basionym: *Dryopteris perpubescens* Alston, Journ. Bot., 78: 227. 1940 (Oct.); Nova Guinea, Ser. 2, 4: 111, t. 8. 1940 (Dec.). New Guinea.
- Th. perstrigosa* (Maxon) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 253. 1941. Basionym: *Dryopteris perstrigosa* Maxon, Kew Bull., 1932: 135. 1932. Colombia.
- Th. peruviana* (Rosenst.) Tryon, Rhodora, 69: 7. 1967. Basionym: *Dryopteris peruviana* Rosenst., Fedde Repert., 7: 298. 1909. Peru.
- Th. petelotii* Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 326. 1936. Tonkin.
- Th. petrophila* (Copel.) Reed, comb. nov. Basionym: *Dryopteris petrophila* Copel., Univ. Calif. Publ. Bot., 18: 220. 1942. New Guinea.
- Th. phacelothrix* (C.Chr. et Rosenst. ex Rosenst.) Tryon, Rhodora, 69: 7. 1967. Basionym: *Dryopteris phacelothrix* C.Chr. et Rosenst. ex Rosenst., Fedde Repert., 11: 56. 1912. Bolivia.
- Th. phegopteris* (L.) Slosson ex Rydb., Flora Rocky Mts., 1043. 1917. Basionym: *Polypodium phegopteris* L., Sp. Pl., 2: 1089. 1753. Synonym: *Phegopteris polypodioides* Fée, Gen. Fil., 243. 1850-1852. Newfoundland to Alaska, S to Pennsylvania, in mts. to W. N.C. and E. Tenn., west to Washington; Aleutians; Greenland; Iceland, Siberia; N and NW China; N. India; Asia Minor; northern Europe.

- Thelypteris philippina* (Presl) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 253. 1941. Basionym: Physematium philippinum Presl, Epim. Bot., 34. 1849. Philippine Isl.
- Th. physematioides* (Kuhn et Christ ex Krug in Urban) Morton, Amer. Fern Journ., 43: 174. 1953. Basionym: Aspidium physematioides Kuhn et Christ ex Krug in Urban, Engl. Bot. Jahrb., 24: 115. 1897. Hispaniola.
- Th. piedrensis* (C.Ch.) Morton, Amer. Fern Journ., 53: 69. 1963. Basionym: Dryopteris piedrensis C.Ch., Smiths. Misc. Coll., 52: 372. 1909. Cuba, Puerto Rico.
- Th. pilosa* (Martens & Gal.) Crawford, Amer. Fern Journ., 41: 16, t. 3a. 1951. Basionym: Gymnogramma pilosa Martens et Gal., Mem. Acad. Brux., 15: 27, t. 4, f. 1. 1842. Mexico-Guatemala.
- Th. pilosa* var. *alabamensis* Crawford, Amer. Fern Journ., 41: 19-20, t. 3b. 1951. Alabama; Mexico.
- Th. pilosa* var. *major* (Fourn.) Crawford, Amer. Fern Journ., 41: 19, t. 4. 1951. Basionym: Gymnogramma pilosa var. major Fourn., Mex. Pl., 1: 73. 1872; Gymnogramma procurrens Fée, Mém. Foug. 8: 78. 1857; G. totta var. procurrens Baker in Hook. et Baker, 1874 (illegit.); Dryopteris pilosa var. procurrens C.Ch., 1913 (illegit.). Mexico-Guatemala.
- Th. pilosissima* Morton, Fieldiana, 28: 11-12. 1951. Venezuela.
- Th. pilosiuscula* (Zippel ex Racib.) Reed, comb. nov. Basionym: Nephrodium pilosiusculum Zippel ex Racib., Pterid. Buit., 189. 1898. Java.
- Th. piloso-hispida* (Hook.) Alston, Journ. Wash. Acad. Sci., 48(7): 233. 1958. Basionym: Nephrodium piloso-hispidum Hook., Sp. Fil., 4: 105. 1862. Mexico - Bolivia, Colombia.
- Th. piloso-squamata* (v.A.v.R.) Reed, comb. nov. Basionym: Dryopteris piloso-squamata v.A.v.R., Bull. Dept. Agric. Ind. Neerl., 21: 4. 1908. New Guinea.
- Th. pilosula* (Mett.) Tryon, Rhodora, 69: 7. 1967. Basionym: Aspidium pilosulum Mett., Fil. Hort. Bot. Lips., 130. 1856; Aspidium lasiethes Mett., 1856, non Aspidium lasiethes Kunze, 1850 (nom. nud.); non Aspidium pilosulum Wall., 1829 (nom. nud.). Mexico-Peru.
- Th. pinnata* (Copel.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 253. 1941. Basionym: Dryopteris pinnata Copel., Univ. Calif. Publ. Bot., 14: 373. 1929. Sumatra.
- Th. pittieri* (C.Ch.) Reed, comb. nov. Basionym: Dryopteris pittieri C.Ch., Smiths. Misc. Coll., 52: 393. 1909. Colombia.
- Th. pittsfordensis* (Slosson) Victorin, Fil. Quebec, 2: 51. 1933. Basionym: Dryopteris pittsfordensis Slosson, Rhodora, 6: 75. 1904. (Vermont, Quebec). = Dryopteris.
- Th. platensis* Abbiatti, Darwiniana, 13(2-4): 553, f. 5, t. 3. 1964. Argentina.
- Th. platyptera* (Copel.) Reed, comb. nov. Basionym: Dryopteris platyptera Copel., Univ. Calif. Publ. Bot., 18: 219. 1942. New Guinea.

- Thelypteris plumosa* (C.Ch.) Reed, comb. nov. Basionym: Dryopteris plumosa C.Ch., Dansk. Bot. Ark., 9(3): 65-66. 1937. Borneo.
- Th. *plurifolia* (v.A.v.R.) Reed, comb. nov. Basionym: Dryopteris plurifolia v.A.v.R., Bull. Buit., III, 5: 201. 1922. Sumatra.
- Th. *poecilophlebia* (Hook.) Reed, comb. nov. Basionym: Polypodium poecilophlebium Hook., Sp. Fil., 5: 14. 1863. Australia.
- Th. *poiteana* (Bory) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 63. 1953. Basionym: Lastrea poiteana Bory, Dict. Class., 9: 233. 1826. Synonym: Polypodium crenatum Swartz, Prodr., 132. 1788, non Forsk., 1775. Trop. Amer., Jamaica, Galapagos Isl.
- Th. *polycarpa* (Blume) K.Iwats., Mem. Coll. Sci., Univ. Kyoto, Ser. B, 31(1): 32. 1964. Basionym: Aspidium polycarpon Blume, Enum. Pl. Jav., 156. 1828. Synonym: Sphaerostephanos asplenoides J.Sm., in Hook. et Bauer, Gen. Fil., 21. 1839. Malaysia, Thailand Pen.
- Th. *polyotis* (C.Ch. ex Kjellb. et C.Ch.) Reed, comb. nov. Basionym: Dryopteris polyotis C.Ch. ex Kjellb. et C.Ch., Engl. Bot. Jahrb., 66: 46. 1933. Celebes.
- Th. *polyphlebia* (C.Ch.) Morton, Amer. Fern Journ., 51: 38. 1961. Basionym: Dryopteris polyphlebia C.Ch., Vid. Selsk. Skr., VII, 10: 161, f. 19. 1913. Costa Rica - Andes of Quito, Ecuador.
- Th. *polyphylla* (Copel.) Reed, comb. nov. Basionym: Dryopteris polyphylla Copel., Univ. Calif. Publ. Bot., 19: 288, t. 37. 1941. Mexico.
- Th. *polypodioides* (Raddi) Reed, comb. nov. Basionym: Ceterach polypodioides Raddi, Opusc. Sci. Bol., 3: 284. 1819; Fl. Bras., 1: 10, t. 22. 1825. Brazil.
- Th. *polyptera* (Copel.) Reed, comb. nov. Basionym: Cyclosorus polypterus Copel., Philip. Journ. Sci., 84: 161. 1955. Philippine Isls (Negros).
- Th. *ponapeana* (Hosak.) Reed, comb. nov. Basionym: Phegopteris ponapeana Hosak., Trans. Nat. Hist. Soc. Formosa, 26: 233. 1936. Caroline Isls (Ponape).
- Th. *porphyricola* (Copel.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 287. 1936. Basionym: Dryopteris porphyricola Copel., Philip. Journ. Sci., 7C: 60. 1912. Borneo, Sarawak, Malaya.
- Th. *porphyrophlebia* (Christ) Reed, comb. nov. Basionym: Aspidium porphyrophlebium Christ, Bull. Acad. Geogr. Bot. Mans, 1904: 117. 1904. China.
- Th. *pozoi* (Lagasca) Morton, Bull. Soc. Bot. France, 106: 234. 1959. Basionym: Hemionitis pozoi Lagasca, Nov. Gen. et Sp., 33. 1816. Synonyms: Polypodium tottum Willd. in L., Sp. Pl., ed. IV, 5: 201. 1810, non Thunb., 1800; Acrostichum pilosiusculum Wikstr., Kgl. Vet. Acad. Handl., 1825: 439. 1826: Polypodium africanum Desv., Mem. Soc. Linn. Paris, 6: 239. 1826; Polypodium eliasii Sennen et Pau, Bull. Soc. Geogr. Bot. Mans, 1910: 94. 1910. Spain, Madeira, Azores, S. Africa, N. India-China, Korea, Japan, Malasia.
- Th. *pozoi* subsp. *himalaica* (Ching) Morton, Amer. Fern Journ., 56(4): 179. 1966. Basionym: Leptogramma himalaica Ching, Sinensia, 7: 100. 1936. India, Himalaya.

- Thelypteris pozoi* subsp. *mollissima* (Kunze) Morton, Amer. Fern Journ., 56(4): 178. 1966. Basionym: Gymnogramma totta var. mollissima Kunze, Linnaea, 24: 249. 1851; G. mollissima Fischer ex Kunze, Linnaea, 23: 255, 310. 1850 (nom. nud.). N. India, Ceylon, S. China, S. Korea, Japan, Ryukyus.
- Th. *prenticei* (Carr. in Seem.) Alston, Amer. Fern Journ., 45: 120. 1955. Basionym: Lastrea prenticei Carr. in Seem., Fl. Vit., 359. 1873. Fiji, Samoa.
- Th. *prismatica* (Desv.) Schelpe, Bol. Soc. Broter., Ser. 2A, 41: 217. 1967 (1968). Basionym: Nephrodium prismaticum Desv., Mem. Soc. Linn. Paris, 6: 256. 1827. Mascarenes, Madagascar.
- Th. *procurrens* (Mett.) Reed, comb. nov. Basionym: Aspidium procurrens Mett., Ann. Ludg. Bat., 1: 231. 1864. Java, Celebes, N. India.
- Th. *producta* (Kaulf.) Reed, comb. nov. Basionym: Aspidium productum Kaulf., Enum., 237. 1824. Philippine Isls. (Luzon).
- Th. *prolifera* (Retz.) Reed, comb. nov. Basionym: Hemionitis proliferum Retz., Obs., 6: 38. 1791. Synonyms: Meniscium proliferum (Retz.) Swartz, Syn. Fil., 19, 207. 1806; Ampelopteris elegans Kunze, Bot. Zeit., 6: 114. 1848; A. prolifera (Retz.) Copel., Gen. Fil., 144. 1947. S. China, N. India, Trop. Africa, Malesia, Polynesia, Mascarenes, Australia.
- Th. *prolixa* (Willd. in L.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: Aspidium prolixum Willd. in L. Sp. Pl., ed. 4, 5: 251. 1810. India, Trop. Africa, Mascarenes.
- Th. *prominula* (Christ) Reed, comb. nov. Basionym: Aspidium prominulum Christ, Bull. Boiss., 4: 659. 1896. Costa Rica.
- Th. *protecta* (Copel.) Reed, comb. nov. Basionym: Dryopteris protecta Copel., Univ. Calif. Publ. Bot., 18: 221. 1942. New Guinea.
- Th. *pseudarfakiana* (Hosak.) Reed, comb. nov. Basionym: Phegopteris pseudarfakiana Hosak., Trans. Nat. Hist. Soc. Formos., 28: 147. 1938. Palau Isl.
- Th. *pseudogueintziana* (R. Bonap.) Alston, Ferns W. Trop. Afr., 61. 1959. Basionym: Dryopteris pseudogueintziana R. Bonap., Bull. Jard. Bot. Brux., 4: 4. 1913. S. Africa, Cameroun, Madagascar.
- Th. *pseudohirsuta* (Rosenst.) Reed, comb. nov. Basionym: Dryopteris pseudohirsuta Rosenst., Med. Rijks Herb. No. 31: 7. 1917. Philippine Isls.
- Th. *pseudoparasitica* (v.A.v.R.) Reed, comb. nov. Basionym: Dryopteris pseudoparasitica v.A.v.R., Nova Guinea, 14: 19. 1924. New Guinea.
- Th. *pseudoreptans* (C. Chr., Reed, comb. nov. Basionym: Dryopteris pseudoreptans C. Chr., Ind. Fil., 286. 1905. Synonym: Nephrodium debile Baker, Journ. Bot., 1880: 212. 1880. Sumatra.
- Th. *pseudosantha* (C. Chr.) Reed, comb. nov. Basionym: Dryopteris pseudosantha C. Chr., Smiths. Misc. Coll., 52: 378. 1909. Costa Rica - Guatemala.
- Th. *pseudostenobasis* (Copel.) Reed, comb. nov. Basionym: Dryopteris pseudostenobasis Copel., Journ. Arnold Arb., 10: 176. 1929. New Guinea.

- Thelypteris ptarmica* (Kunze ex Mett.) Reed, comb. nov. Basionym: Aspidium ptarmicum Kunze ex Mett., Pheg. u. Asp., 80, n. 191. 1858. S. Brazil.
- Th. *ptarmiciformis* (C.Ch. et Rosenst. ex Rosenst.) Reed, comb. nov. Basionym: Dryopteris ptarmiciformis C.Ch. et Rosenst. ex Rosenst., Fedde Repert., 12: 472. 1913. Bolivia.
- Th. *pterifolia* (Mett. ex Kuhn) Reed, comb. nov. Basionym: Aspidium pterifolium Mett. ex Kuhn, Linnaea, 36: 110. 1869. Synonym: Aspidium gleichenioides Christ, Bull. Herb. Boiss., II, 4: 960. 1904. Guatemala, Colombia, Bolivia.
- Th. *pteroidea* (Klotzsch) Tryon, Rhodora, 69: 8. 1967. Basionym: Polypodium pteroideum Klotzsch, Linnaea, 20: 389. 1847. Colombia-Ecuador-Brazil.
- Th. *pterospora* (v.A.v.R.) Reed, comb. nov. Basionym: Dryopteris pterospora v.A.v.R., Bull. Buit., III, 2: 148. 1920. Sumatra.
- Th. *puberula* (Bak. in Hook. et Bak.) Morton, Amer. Fern Journ., 48: 138. (1958) 1959. Basionym: Nephrodium puberulum Bak. in Hook. et Bak., Syn. Fil., ed. 2, 495. 1874, non Aspidium puberulum Fée, Mém. Foug. 10: 40. 1865 (illegit. nom.), nec As. puberulum Gaud. in Freyc. Voy. Bot., 342. 1827. Centr. Amer., Mexico.
- Th. *pubescens* (L.) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 63. 1953. Basionym: Polypodium pubescens L., Syst. Nat., ed. 10, 2: 1327. 1759. West Indies, Jamaica.
- Th. *pubirachis* (Bak.) Reed, comb. nov. Basionym: Nephrodium pubirachis Bak., Journ. Bot., 1876: 344. 1876. Fiji, Samoa.
- Th. *pusilla* (Mett. in Triana et Planch.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: Aspidium pusillum Mett. in Triana et Planch., Ann. Sci. Nat., V, 2: 245. 1864. Colombia.
- Th. *pustulosa* (Copel.) Reed, comb. nov. Basionym: Cyclosorus pustulosus Copel., Philip. Journ. Sci., 81: 37. 1952. Philippine Isls. (Luzon, Mindoro).
- Th. *quadrangularis* (Fée) Schelpe, Journ. S. Afr. Bot., 30(4): 196. 1964. Basionym: Nephrodium quadrangulare Fée, Gen. Fil., 308. 1850-52. Synonym: Dryopteris contigua Rosenst., Med. Rijks Herb., No. 31: 8. 1917. Pantropical: Borneo, Brit. Guiana, Africa (Mocambique, Zambesia, Ivory Coast, Oubangui).
- Th. *quadriaurita* (Christ) Reed, comb. nov. Basionym: Dryopteris quadriaurita Christ, Philip. Journ. Sci., 2C: 209. 1907. New Guinea, Philippine Isls (Mindanao).
- Th. *quadriquetra* (v.A.v.R.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: Dryopteris quadriquetra v.A.v.R., Nova Guinea, 14: 16. 1924. New Guinea.
- Th. *quaylei* (E.Brown in E. et F. Brown) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: Dryopteris quaylei E.Brown in E. et F. Brown, Bernice P. Bishop Mus. Bull., 89: 28, f. 9. 1931. Marquesas.
- Th. *quelpaertensis* (Christ in Lev.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 328. 1936. Basionym: Dryopteris quelpaertensis Christ in Lev., Bull. Acad. Geogr. Bot. Mans, 7. 1910. Synonyms: Nephrodium montanum var. fauriei Christ, Bull. Herb. Boiss., 4: 671. 1896; Dryopteris christiana Kodama ex Koidz., Bot. Mag. Tokyo, 38: 107. 1924. Korea, Aleutian Isls., Kamtschatka.

- Thelypteris quelpaertensis* var. *yakumontana* (Masam.) Tagawa, Acta Phytotax. Geobot., 5: 196. 1936. Basionym: Dryopteris yakumontana Masam., Journ. Soc. Trop. Agr. Formos., 4: 76. 1932. Taiwan, Kyushu.
- Th. *rampans* (Bak.) Reed, comb. nov. Basionym: Nephrodium rampans Bak., Journ. Bot., 1889: 177. 1889. Centr. China.
- Th. *randallii* Maxon et Morton, in Morton, Amer. Fern Journ., 53: 69. 1963. Jamaica.
- Th. *recumbens* (Rosenst.) Reed, comb. nov. Basionym: Dryopteris recumbens Rosenst., Hedwigia, 46: 123. 1906. S. Brazil.
- Th. *reducta* Small, Ferns S.E. States, 254, illus. 1938. (Florida). = Dryopteris.
- Th. *reederi* (Copel.) Reed, comb. nov. Basionym: Cyclosorus reederi Copel., Amer. Fern Journ., 43: 12. 1953. New Guinea.
- Th. *refracta* (Fisch. et Mey. ex Kunze) Reed, comb. nov. Basionym: Polypodium refractum Fisch. et Mey. ex Kunze, Linnaea 23: 283, 321. 1850. Brazil, Paraguay, Argentina.
- Th. *regis* (Copel.) Reed, comb. nov. Basionym: Dryopteris regis Copel., Univ. Calif. Publ. Bot., 18: 220. 1942. New Guinea.
- *Th. *reichiana* (Presl in Sternb.) Reed, comb. nov. Basionym: Pecopteris reichiana Presl in Sternb., Flora der Vorwelt, 2: 155, t. 37, f. 2. 1838. Synonyms: Aspidium reichianum Ett., Die Farnkr. der Jetztwelt, 197. 1865; Pecopteris striata Sternb., Flora der Vorwelt, 2: 155, t. 37, f. 3-4. 1838. Upper Cretaceous (Senonian): Bavaria, Saxony. Aff. Th. *ligulata*.
- Th. *remotipinna* (Bonap.) Reed, comb. nov. Basionym: Dryopteris remotipinna Bonap., Notes Pterid., 5: 57. 1917. Madagascar.
- Th. *remotipinnata* (Hayata) Alston in Koie et Reching., Biol. Skr. Danske Vid. Selsk., 10(3): 10. 1959. Basionym: Dryopteris remotipinnata Hayata, Gen. Ind. Fl. Formosa, 108. 1917. Sachalin-Manchuria-Mongolia, N & E China.
- Th. *repandula* (v.A.v.R.) Reed, comb. nov. Basionym: Dryopteris repandula v.A.v.R., Nova Guinea, 14: 20. 1924. New Guinea.
- Th. *repens* (Hope) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 304. 1936. Basionym: Nephrodium repens Hope, Journ. Bombay Nat. Hist. Soc., 21: 535. 1899. Himayala - Tonkin.
- Th. *reptans* (J.F.Gmel.) Morton, Fieldiana, 28(1): 12. 1951; Amer. Fern Journ., 41: 87. 1951. Basionym: Polypodium reptans J.F. Gmel., Syst. Nat., 2(2): 1309. 1791. Florida - Brazil, Venezuela, Jamaica.
- Th. *reptans* var. *tenera* (Fée) Proctor, Rhodora, 61: 306. (1959) 1960. Basionym: Goniopteris tenera Fée, 11 Mém. Foug., 60, t. 15, f. 3. 1866. Guadeloupe.
- Th. *resinifera* (Desv.) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 63. 1953. Basionym: Polypodium resiniferum Desv., Berl. Mag., 5: 317. 1811. Synonyms: Nephrodium panamense Presl, Rel. Haenk., 1: 35. 1825; Nephrodium caribaeum Jenm., Journ. Bot., 24: 270. 1886; Lastrea normalis Copel., Gen. Fil., 139. 1947. West Indies, Mexico - Panama.

- Thelypteris resinifera* var. *promixa* (C.Chr.) Reed, comb. nov. Basionym: *Dryopteris panamensis* var. *proxima* C.Chr., Smiths. Misc. Coll., 52: 377. 1909. Mexico.
- Th. resinosofoetida* (Hook.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: *Nephrodium resinosofoetidum* Hook., Sp. Fil., 4: 105. 1862. Costa Rica - Bolivia.
- Th. reticulata* (L.) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 63. 1953. Basionym: *Polypodium reticulatum* L., Syst. Nat., ed. 10, 2: 1325. 1759. Trop. Amer., Jamaica.
- Th. retusa* (Swartz) Reed, comb. nov. Basionym: *Polypodium retusum* Swartz, Vet. Akad. Handl., 1817: 61. 1817; Lindm., Ark. f. Bot., 1: 227, t. 10, f. 11. 1903. Brazil.
- Th. rhombea* (Christ) Reed, comb. nov. Basionym: *Dryopteris diversiloba* var. *acrostichoides* subvar. *rhombea* Christ, Philip. Journ. Sci., Bot. 20: 200. 1907. Philippine Isls., Celebes.
- Th. rigida* (Ridl.) Reed, comb. nov. Basionym: *Goniopteris rigida* Ridl., Trans. Linn. Soc., II. Bot., 9: 258. 1916. Synonym: *Phegopteris wollastonii* v.A.v.R., Mal. Ferns Suppl., 515. 1917. New Guinea.
- Th. rigidifolia* (v.A.v.R.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: *Dryopteris rigidifolia* v.A.v.R., Nova Guinea, 14: 18. 1924. New Guinea.
- Th. rimbachii* (Rosenst.) Reed, comb. nov. Basionym: *Dryopteris rimbachii* Rosenst., Fedde Repert., 7: 147. 1909. Ecuador.
- Th. riograndensis* (Lindm.) Reed, comb. nov. Basionym: *Polypodium riograndense* Lindm., Ark. f. Bot., 1: 230, t. 9, f. 6. 1903. S. Brazil, Paraguay, Uruguay.
- Th. riopardensis* (Rosenst.) Reed, comb. nov. Basionym: *Dryopteris riopardensis* Ros., Hedw., 46: 121. 1906. S. Brazil.
- Th. riparia* (Copel.) Reed, comb. nov. Basionym: *Dryopteris riparia* Copel., Univ. Calif. Publ. Bot., 18: 221. 1942. New Guinea.
- Th. rivulariformis* (Rosenst.) Reed, comb. nov. Basionym: *Dryopteris rivulariformis* Rosenst., Fedde Repert., 6: 316. 1909. Synonym: *Dryopteris stenophylla* Rosenst., Fedde Repert., 5: 233. 1908. Bolivia.
- Th. rivularioides* (Fée) Abbiatti, Rev. Mus. LaPlata, Ser II. Bot., 9: 19. 1958. Basionym: *Aspidium rivularioides* Fée, Crypt. Vasc. Fl., 1: 148, t. 50, f. 1. 1869. S. Brazil, Paraguay, Uruguay, Argentina.
- Th. rivularioides* var. *arechavaletae* (Hieron.) Abbiatti, Darwiniana, 13(2-4): 566. 1964. Basionym: *Aspidium arechavaletae* Hieron., Engl. Bot. Jahrb., 22: 370. 1896 (1897). Uruguay.
- Th. rivularioides* var. *pseudomontana* (Hieron.) Abbiatti, Darwiniana, 13(2-4): 566. 1964. Basionym: *Aspidium pseudomontana* Hieron., Engl. Bot. Jahrb., 22: 373. 1896 (1897). Argentina, S. Brazil.
- Th. robertiana* (Hoffm.) Slosson ex Rydb., Fl. Rocky Mts., 1044. 1917. Basionym: *Polypodium robertianum* Hoffm., Deutsch. Fl., 2: 20. 1795. = *Gymnocarpium*.

- Thelypteris robinsonii* (Ridl.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: Lastrea robinsonii Ridl., Journ. Fed. Mal. States Mus., 10: (128-156). 1920; Journ. Mal. Br. Roy. Asiatic Soc., 4: 65. 1926. Malacca. (= *Th. viscosa*).
- Th. rodigasiana* (Moore) Reed, comb. nov. Basionym: Nephrodium rodigasianum Moore, L'ill. Hort., 29: 27, t. 442. 1882. Samoa.
- Th. roemeriana* (Rosenst.) Reed, comb. nov. Basionym: Dryopteris roemeriana Rosenst., Nova Guinea, 8: 723. 1912. New Guinea.
- Th. rolandii* (C.Chr.) Tryon, Rhodora, 69: 8. 1967. Basionym: Dryopteris rolandii C.Chr., Dansk. Vid. Selsk. Skr., VII, 10: 258. 1913. Ecuador.
- Th. roraimensis* (Baker) Reed, comb. nov. Basionym: Polypodium roraimense Baker, Timehri, 5: 214. 1886. Brit. Guiana.
- Th. rosei* (Maxon) Tryon, Rhodora, 69: 8. 1967. Basionym: Dryopteris rosei Maxon, Smiths. Misc. Coll., 65(8): 10. 1915. Peru.
- Th. rosenstockii* (C.Chr.) Tryon, Rhodora, 69: 8. 1967. Basionym: Dryopteris rosenstockii C.Chr., Dansk. Vid. Selsk. Skr., VII, 4: 304. 1907. Ecuador.
- Th. rotumaensis* (St. John) Reed, comb. nov. Basionym: Cyclosorus rotumaensis St. John, Occ. Papers Bishop Mus., 21: 180, f. 3. 1954. Fiji Isls. (Rotuna).
- Th. rubicunda* (v.A.v.R.) K.Iwats., Mem. Coll. Sci., Univ. Kyoto, Ser. B, 31(3): 196. 1965. Basionym: Phegopteris rubicunda v.A.v.R., Bull. Jard. Bot. Buit., III, 2: 162. 1920. Malaya, Sumatra.
- Th. rubida* (J.Smith) K.Iwats., Mem. Coll. Sci., Univ. Kyoto, Ser. B, 31(3): 195. 1965. Basionym: Goniopteris rubida J.Smith, Journ. Bot., 3: 395. 1841. Philippine Isls.
- Th. rubinervis* (Mett. ex Kuhn) K.Iwats., Mem. Coll. Sci., Univ. Kyoto, Ser. B, 31(3): 195. 1965. Basionym: Phegopteris rubinervis Mett. ex Kuhn, Linnaea, 36: 116. 1869. Polynesia.
- Th. rubra* (Ching) K.Iwats., Journ. Jap. Bot., 38: 315. 1963. Basionym: Dryopteris rubra Ching, Bull. Fan Mem. Inst. Biol., Bot. 2: 198, t. 12. 1931. N. India - S. China.
- Th. rudis* (Kunze) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 64. 1953. Basionym: Polypodium rude Kunze, Linnaea, 13: 133. 1839. Synonym: Polypodium ctenoides Jenm., Bull. Bot. Dept. Jamaica, II, 4: 129. 1897. Jamaica, Mexico - Bolivia, Peru.
- Th. rufostraminea* (Christ) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 291. 1936. Basionym: Aspidium rufostramineum Christ, Bull. Soc. Bot. France, 52 (Mem. 1): 36. 1905. S. China.
- Th. rupestris* (Klotzsch) Reed, comb. nov. Basionym: Leptogramma rupestre Klotzsch, Linnaea, 20: 415. 1847. Colombia-Venezuela.
- Th. rupicola* (C.Chr.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: Dryopteris rupicola C.Chr., Fedde Repert., 15: 24. 1917. Hispaniola.
- Th. rurutensis* (Copel.) Reed, comb. nov. Basionym: Dryopteris rurutensis Copel., Occ. Papers Bishop Mus., 14: 55, t. 7. 1938. S.E. Polynesia (Australian Isls.).

- Thelypteris rusbyi* (C.Chr.) Tryon, Rhodora, 69: 8. 1967. Basionym: Dryopteris rusbyi C.Chr., Smiths. Misc. Coll., 52: 390. 1909. Bolivia.
- Th. rustica* (Fée) Proctor, Rhodora, 61: 306. (1959) 1960. Basionym: Phegopteris rustica Fée, 11^e Mém. Foug., 55, t. 13, f. 1. 1866. Synonym: Dryopteris dominicensis C.Chr., Smith. Misc. Coll., 52: 384. 1909. Guadeloupe, Dominica, St. Vincent, Costa Rica.
- Th. sagittata* (Swartz) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 64. 1953. Basionym: Polypodium sagittatum Swartz, Prodr., 132. 1788. West Indies, Jamaica.
- Th. sagittifolia* (Blume) Reed, comb. nov. Basionym: Aspidium sagittaeifolium Blume, Enum. Pl. Jav., 153. 1828. Java, Perak.
- Th. sagittifolioides* (Copel.) Reed, comb. nov. Basionym: Cyclosorus sagittifolioides Copel., Philip. Journ. Sci., 81: 29, t. 21. 1952. Philippine Isls. (Samar).
- Th. sakayensis* (Zeiller) Reed, comb. nov. Basionym: Nephrodium sakayense Zeiller, Bull. Soc. Bot. France, 32: 75. 1885. Perak.
- Th. salicifolia* (Wall. ex Hook.) Reed, comb. nov. Basionym: Meniscium salicifolium Wall. ex Hook., Icon. Pl., t. 990. 1854. Penang, Singapore, Malaya, Sumatra, Borneo.
- Th. salzmännii* (Fée) Morton, Los Angeles County Mus. Contrib. Sci., 35: 7. 1960. Basionym: Meniscium salzmännii Fée, Gen. Fil., 223 (salzmännii). 1850-52. Amer. trop.
- Th. samarensis* (Copel.) Reed, comb. nov. Basionym: Cyclosorus samarensis Copel., Philip. Journ. Sci., 81: 35. 1952. Philippine Isls. (Samar).
- Th. sambiranensis* (C.Chr.) Reed, comb. nov. Basionym: Dryopteris sambiranensis C.Chr., Cat. Pl. Madagas. Pterid., 26. 1932 (nom.); Dansk Bot. Ark., 7: 50, t. 12, f. 11. 1932. Madagascar.
- Th. sampsoni* (Bak.) K.Iwats., Mem. Coll. Sci., Univ. Kyoto, Ser. B, 31(3): 192. 1965. Basionym: Polypodium sampsoni Bak., Ann. Bot., 5: 471. 1891. Tonkin.
- Th. sancta* (L.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941; Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 64. 1953. Basionym: Acrostichum sanctum L., Syst. Nat., ed. 10, 2: 1320. 1759. West Indies, Jamaica; Guatemala - Quito, Peru.
- Th. sancta* var. *hirta* (Jenm.) Reed, comb. nov. Basionym: Nephrodium sanctum var. hirtum Jenm., Bull. Bot. Dept. Jam., II, 3: 20. 1896. Jamaica.
- Th. sancta* var. *jamaicensis* (Bak. in Jenm.) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 64. 1953. Basionym: Nephrodium jamaicense Bak. in Jenm., Journ. Bot., 15: 264. 1877. Jamaica.
- Th. sancta* var. *magna* (Jenm.) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 64. 1953. Basionym: Nephrodium sanctum var. magnum Jenm., Bull. Bot. Dept. Jamaica, II, 3: 20. 1896. Jamaica.
- Th. sancta* var. *portoricensis* (Kuhn) Morton, Amer. Fern Journ., 53: 64. 1963. Basionym: Aspidium sanctum var. portoricense Kuhn, Bot. Jahrb. Engl., 24: 115. 1897. Puerto Rico.

- Thelypteris sancta* var. *strigosa* (C.Chr.) Reed, comb. nov. Basionym: *Dryopteris sancta* var. *strigosa* C.Chr., Smiths. Misc. Coll., 52: 379. 1909. Cuba, Puerto Rico.
- Th. *sanctiformis* (C.Chr.) Reed, comb. nov. Basionym: *Dryopteris sanctiformis* C.Chr., Vid. Selsk. Skr., VII, 10: 130, f. 12D. 1913. Panama - Ecuador.
- Th. *sandwicensis* (Hook. et Arn.) Fosberg, Occ. Papers Bishop Mus., 23(2): 30. 1962; l.c., 23(8): 129. 1966. Basionym: *Polypodium sandwicense* Hook. et Arn., Bot. Beechey Voy., 105. 1832. = *Ctenitis sandwicensis*.
- Th. *savaiensis* (Bak.) Reed, comb. nov. Basionym: *Nephrodium savaiense* Bak., Ann. Bot., 5: 318. 1891. Samoa.
- Th. *saxatilis* R.P.St.John in Small, Ferns. S.E.States, 236, illus. 1938. = *Dryopteris*.
- Th. *saxicola* (Swartz) Reed, comb. nov. Basionym: *Polypodium saxicola* Swartz, Vet. Akad. Handl., 1817: 59, t. 3, f. 5. 1817. Costa Rica - Peru.
- Th. *scaberula* (Ching) Reed, comb. nov. Basionym: *Cyclosorus scaberulus* Ching, Bull. Fan Mem. Inst. Biol., Bot. 8: 223. 1938. China (Hainan).
- Th. *scalaris* (Christ) Alston, Journ. Wash. Acad. Sci., 48(7): 234. 1958. Basionym: *Aspidium scalare* Christ, Bull. Boiss., II, 6: 159. 1906. Mexico to Guatemala and Costa Rica, and Colombia.
- Th. *scallanii* (Christ in Baroni et Christ) Morton, Amer. Fern Journ., 56(4): 179. 1966. Basionym: *Aspidium scallanii* Christ in Baroni et Christ, Bull. Soc. Bot. Ital., 1901: 296. 1901. China (Szechuan).
- Th. *scalpturoides* (Fée) Reed, comb. nov. Basionym: *Phegopteris scalpturoides* Fée, 11^e Mém. Foug., 51. 1866. Cuba.
- Th. *scalpturoides* var. *jamaicensis* (C.Chr.) Reed, comb. nov. Basionym: *Dryopteris scalpturoides* var. *jamaicensis* C.Chr., Kgl. Dansk Vid. Selsk. Skr., 7: 299. 1907. Jamaica.
- Th. *scariosa* (Rosenst.) Reed, comb. nov. Basionym: *Dryopteris scariosa* Rosenst., Hedwigia, 46: 127. 1906. Brazil.
- Th. *schaffneri* (Fée) Reed, comb. nov. Basionym: *Nephrodium schaffneri* Fée, 8 Mém. Foug., 108. 1857. Mexico.
- Th. *sclerophylla* (Poepp. ex Spreng.) Morton, Amer. Fern Journ., 41: 87 (err. "Kunze"). 1951. Basionym: *Aspidium sclerophyllum* Poepp. ex Spreng. in L. Syst. Veg., ed. 16; 4: 99. 1827; Kunze, Linnaea, 9: 92. 1834. Florida, West Indies (Cuba, Jamaica, Puerto Rico, Hispaniola).
- Th. *scelopendrioides* (L.) Procter, Bull. Inst. Jamaica, Sci. Ser., No. 5: 64. 1953. Basionym: *Polypodium scolopendrioides* L., Sp. Pl., 2: 1085. 1753. Synonyms: *Polypodium incisum* Swartz, Prodr. Veg. Ind. Occ., 131. 1788; *Goniopteris strigosa* Fée, 11^e Mém. Foug., 59, t. 15, f. 1. 1866. West Indies.
- Th. *semihastata* (Kunze) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: *Aspidium semihastatum* Kunze, Linnaea, 9: 91. 1834. Peru.

- Thelypteris seriacea* (Scott in Bedd.) Reed, comb. nov. Basionym: Lastrea sericea Scott in Bedd., Ferns Brit. India, t. 308. 1869, non *Dryopteris sericea* C.Chr., Bot. Gaz., 56: 136. 1913. India, Burma, China (Yunnan).
- Th. *serra* (Swartz) R.P.St. John in Small, Ferns S.E. States, 241, illus. 1938. Basionym: Polypodium serra Swartz, Prodr., 132. 1788. West Indies, Jamaica.
- Th. *serrata* (Cav.) Alston, Kew Bull. 1932: 309. 1932. Basionym: Meniscium serratum Cav., Descr. Pl., 548. 1803. Florida, West Indies; Mexico - Bolivia, Brazil.
- Th. *serrulata* (Swartz) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 65. 1953. Basionym: Polypodium serrulatum Swartz, Schrad. Journ. Bot., 1800(2): 25. 1801. Jamaica.
- Th. *serrutula* Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 319. 1936. China (Szechuan).
- Th. *sessilipinna* (Copel.) Reed, comb. nov. Basionym: Dryopteris sessilipinna Copel., Philip. Journ. Sci., Bot. 6: 145. 1911. Philippine Isls.
- Th. *setigera* (Blume) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 345. 1936. Basionym: Cheilanthes setigera Blume, Enum. Pl. Jav., 138. 1828. Continental S. Asia, Malaysia, Philippines - Polynesia, Taiwan.
- Th. *setosula* Reed, nom. nov. Synonym: Nephrodium angustifolium Presl, Epim. Bot., 48. 1849. Philippine Isls. (Luzon).
- Th. *sevillana* Reed, nom. nov. Synonym: Cyclosorus glaber Copel., Philip. Journ. Sci., 81: 34. 1952. Philippine Isls (Bohol, Sevilla River).
- Th. *siambonensis* (Hieron.) Abbiatti, Darwiniana, 13(2-4): 566. 1964. Basionym: Aspidium siambonense Hieron., Engl. Bot. Jahrb., 22: 372. (1896) 1897. Argentina (Tucuman).
- Th. *sikkimensis* (Bak.) Reed, comb. nov. Basionym: Aspidium sikkimense Bak. in Hook. et Bak., Syn. Fil., 256. 1867. Sikkim.
- Th. *silvatica* (Pappe et Rawson) Reed, comb. nov. Basionym: Goniopteris silvatica Pappe et Rawson, Syn. Fil. Afr. Austr., 30. 1858. Synonyms: Goniopteris patens Fée, Gen. Fil., 253. 1852, non *Polypodium patens* Swartz, 1788; Gymnogramma unita Kunze, Linnaea, 18: 115. 1844, non *Polypodium unitum* L., 1759. Ghana, Liberia, S. Africa.
- Th. *simillima* (C.Chr.) K.Iwats., Acta Phytotax. Geobot., 21(5-6): 169. 1965. Basionym: Dryopteris simillima C.Chr., Ind. Fil., 292. 1905. Synonym: Nephrodium simulans Bak., Journ. Bot., 1888: 325. 1888, non Bak., 1874. Borneo.
- Th. *simozawae* Tagawa, Acta Phytotax. Geobot., 6: 157. 1937. (Taiwan). = Th. *angulariloba*.
- Th. *simplex* (Hook.) K.Iwats., Mem. Coll. Sci., Univ. Kyoto, 31(3): 189. 1965. Basionym: Meniscium simplex Hook., Lond. Journ. Bot., 1: 294, t. 11. 1842. S. China, Tonkin, Indochina, Taiwan, Ryukyus.
- Th. *simplex* var. *trifoliata* (Ching) Reed, comb. nov. Basionym: Abacopteris simplex var. *trifoliata* Ching, Bull. Fan Mem. Inst., Biol., Bot. 10: 10. 1940. China (Fukien).

- Thelypteris simplicifolia* (J. Smith ex Hook.) Reed, comb. nov. Basionym: *Aspidium simplicifolium* J. Smith ex Hook., Icon. Pl., t. 919. 1854. Philippine Isls., Fiji.
- Th. simulans* Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 280. 1936. (Taiwan). = *Th. auriculata*.
- Th. simulata* (Davenp.) Nieuwl., Amer. Midl. Nat., 1: 226. 1910. Basionym: *Aspidium simulatum* Davenp., Bot. Gaz., 19: 495. 1894. Canada (P.E.I. to S. Quebec), south to N.E. Alabama, New York and West Virginia.
- Th. singalanensis* (Bak.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 334. 1936. Basionym: *Nephrodium singalanense* Bak., Journ. Bot., 1880: 212. 1880. Synonym: *Nephrodium dayi* Bedd., Journ. Bot., 1887: 323. 1887. Malaya, Sumatra, Borneo, Perak, Taiwan.
- Th. sintenisii* (Kuhn et Christ ex Krug in Urban) Reed, comb. nov. Basionym: *Aspidium sintenisii* Kuhn et Christ ex Krug in Urban, Engl. Bot. Jahrb., 24: 119. 1897; Urban, Symb. Ant., 4: 19. 1903. Puerto Rico.
- Th. skinneri* (Hook.) Reed, comb. nov. Basionym: *Aspidium skinneri* Hook., Icon. Pl., t. 924. 1854. Guatemala, Ecuador.
- Th. sodiroi* Reed, nom. nov. Synonym: *Nephrodium nemorale* Sodiro, Crypt. Vasc. Quit., 267. 1893; *Thelypteris nemoralis* (Sod.) Tryon, Rhodora, 69: 7. 1967, non *Th. nemoralis* Ching, 1936. Ecuador.
- Th. sogerensis* (Gepp) Reed, comb. nov. Basionym: *Dryopteris sogerensis* Gepp, Journ. Bot., 1923 (Suppl.): 61. 1923. New Guinea.
- Th. spekei* (Bak. in Hook. et Bak.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: *Nephrodium spekei* Bak. in Hook. et Bak., Syn. Fil., 263. 1867. West Africa, Comores Isls.
- Th. spenceri* (Copel. ex Christ) Reed, comb. nov. Basionym: *Dryopteris spenceri* Copel. ex Christ, Philip. Journ. Sci., Bot. 2: 290. 1907. Philippine Isls.
- Th. spinosa* (Copel.) Reed, comb. nov. Basionym: *Dryopteris spinosa* Copel., Univ. Calif. Publ. Bot., 18: 219. 1942. Synonym: *Lasia armata* Copel., Gen. Fil., 138. 1947. New Guinea.
- Th. spinulosa* (O.F. Muell.) Nieuwl., Amer. Midl. Nat., 1: 226. 1910. Basionym: *Polypodium spinulosum* O.F. Muell., Fl. Fridr., 113, f. 2. 1767. = *Dryopteris*.
- Th. spinulosa* var. *americana* (Fisch. ex Kunze) Weatherby, Rhodora, 21: 178. 1919. Basionym: *Aspidium spinulosum* (var.) *americanum* Fisch. ex Kunze, Amer. Journ. Sci., II, 6: 84. 1848. = *Dryopteris*.
- Th. spinulosa* var. *concordiana* (Davenp.) Weatherby, Rhodora, 21: 178. 1919. Basionym: *Nephrodium spinulosum* var. *concordianum* Davenp., Rhodora, 6: 33. 1904. = *Dryopteris intermedia* var.
- Th. spinulosa* var. *dilatata* (Hoffm.) St. John et Warren, Prelim. List Fl. Kaniksu Nat. For., 1: 1. 1925. Basionym: *Polypodium dilatatum* Hoffm., Deutsch. Fl., 2: 7. 1795. = *Dryopteris*.
- Th. spinulosa* var. *fructuosa* (Gilbert) Fernald, Rhodora, 28: 146. 1925. Basionym: *Nephrodium spinulosum* (var.) *fructuosum* Gilbert, List N. Amer. Pterid., 37. 1901. = *Dryopteris intermedia*.
- Th. spinulosa* var. *intermedia* (Muhl.) Nieuwl., Amer. Midl. Nat., 2: 278. 1912; Weatherby, Rhodora, 21: 178. 1919. Basionym:

- Polypodium vel Aspidium intermedium Muhl. ex Willd. in L. Sp. Pl., ed. 4, 5: 262. 1810. = Dryopteris intermedia.
- Th. sprengelii (Kaulf.) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 65. 1953. Basionym: Aspidium sprengelii Kaulf., Flora, 1823(1): 365. 1823. = Th. balbisii.
- Th. sprucei (Bak. in Hook. et Bak.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: Nephrodium sprucei Bak. in Hook. et Bak., Syn. Fil., 269. 1867. Ecuador.
- Th. squamaestipes (Clarke) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 281. 1936. Basionym: Polypodium appendiculatum var. squamaestipes Clarke, Trans. Linn. Soc., II, Bot. 1: 543, t. 79, f. 2. 1880. Himalaya, Sikkim, N. India.
- Th. squamigera (Schlecht.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 329. 1936 (pro err., "squamulosa"). Basionym: Aspidium thelypteris var. squamigerum Schlecht., Adumbr., 23, t. 11. 1825. (Trop. et Austr. Africa, Madagascar, S. India, New Zealand) = Th. palustris var. vel Th. confluens.
- Th. squamipes (Copel.) Reed, comb. nov. Basionym: Dryopteris squamipes Copel., Philip. Journ. Sci., 56: 99, t. 5. 1935. Philippine Isls. (Mindanao).
- Th. squamulosa (Presl) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 5, 329. 1936. Basionym: Lastrea squamulosa Presl, Tent. Pterid., 76 (nom. nud.). 1836; Nephrodium squamulosum ("Presl") Hook. f., Fl. New Zealand, 2: 39. 1855. = Th. confluens.
- Th. standleyi (Maxon et Morton) Tryon, Rhodora, 69: 8. 1967. Basionym: Dryopteris standleyi Maxon et Morton, Bull. Terr. Bot. Club, 65: 368. 1938. Guatemala.
- Th. stegnogrammoides (Bak.) Fosberg, Occ. Papers Bishop Mus., 23: 30. 1962. Basionym: Polypodium stegnogrammoides Bak., Syn. Fil., 317. 1867. Hawaiian Isls.
- Th. stellato-pilosa (Brause) Reed, comb. nov. Basionym: Dryopteris stellato-pilosa Brause, Engl. Bot. Jahrb., 56: 96. 1920. New Guinea.
- Th. stenobasis (C.Chr.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: Dryopteris stenobasis C.Chr., Ind. Fil., 294. 1905. = Th. attenuata.
- Th. stenodonta (Copel.) Reed, comb. nov. Basionym: Cyclosorus stenodontus Copel., Philip. Journ. Sci., 81: 28, t. 20. 1952. Philippine Isls. (Panay).
- Th. stenolepis (Bak.) Reed, comb. nov. Basionym: Polypodium stenolepis Bak., Kew Bull., 1898: 231. 1898. Synonym: Aspidium yunnanense Christ, Bull. Boiss., 6: 965. 1898. S. China.
- Th. stenophylla (Bak.) Reed, comb. nov. Basionym: Meniscium stenophyllum Bak., Journ. Bot., 1891: 108. 1891. Synonym: Dryopteris brevipinna C.Chr., Ind. Fil., 255. 1905. Borneo.
- Th. stereophylla (v.A.v.R.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: Dryopteris stereophylla v.A.v.R., Nova Guinea, 14: 17. 1924. New Guinea.

- Thelypteris stierii* (Rosenst.) Reed, comb. nov. Basionym: Gymnogramma stierii Rosenst., Festschr. Alb. v. Bamberg, 64. 1905. S. Brazil.
- Th. stipellata* (Blume) K. Iwats., Acta Phytotax. Geobot., 21(5-6): 160. 1965. Basionym: Aspidium stipellatum Blume, Enum. Pl. Jav., 152. 1828. W. Malaysia, Johore, Pahang, Trengganu, Perak, Ladrone Islands.
- **Th. stiriaca* (Unger) Reed, comb. nov. Basionym: Polypodites stiriacus Unger, Chlor. Prot., 212, t. 36, f. 1-6. 1849. Synonyms: Goniopteris stiriaca (Unger) A. Braun, (Ueber Foss. Goniopteris-Arten) Zeitschr. Geol. Ges., 4: 553, 556. 1852; Kräusel, Paläobotanische Notizen, VIII. 1927; Lastrea stiriaca (Unger) Heer, Fl. Tert. Helv., 1: 31 (styriaca), t. 7-8. 1855; l.c., 3: 151. 1859; Dotzler, Palaeontographica, 83B: 4, t. 1, f. 1, t. 2, f. 1-2. 1938; Phegopteris stiriaca (Unger) Ettl., Die Farnkr. der Jetztwelt, 195. 1865; Dryopteris stiriaca (Unger) Palibin, 1937; Cyclosorus stiriacus (Unger) Granb. et al., Ann. Paleont., 48: 106. 1962; Ching et al. in Takht., Paleobotanika, 4: 195, t. 2, f. 1-3. 1963; Lastrea helvetica Heer, Fl. Tert. Helv., 1: 33, t. 6, f. 2a-2c. 1855. Upper Tertiary (Oligocene-Miocene): Switzerland, France; (Neogene): Transcaucasia Goderdzi Pass, S.W. Georgia, USSR.
- Th. stokesii* (E. Brown in E. et F. Brown) Reed, comb. nov. Basionym: Dryopteris stokesii E. Brown in E. et F. Brown, Bishop Mus. Bull., 89: 20, f. 6. 1931. Polynesia (Rapa Isl.).
- Th. straminea* (Bak. in Hook. et Bak.) Reed, comb. nov. Basionym: Polypodium stramineum Bak. in Hook. et Bak., Syn. Fil., 316. 1867. Venezuela.
- Th. striata* (Schum.) Schelpe, Journ. S. Afr. Bot., 21(4): 268. 1965. Basionym: Aspidium striatum Schum., Kgl. Dansk Vid. Selsk., Afd. 4: 230. 1829. Synonyms: Polypodium pallidivenium Hook., Sp. Fil., 5: 8. 1863; Dryopteris hemitelioides Christ, Ann. Mus. Congo, 5: 26. 1909. Trop. Africa (Guinea, Cameroun, Congo, Senegal - Angola).
- Th. striata* var. *molundensis* (Brause) Reed, comb. nov. Basionym: Dryopteris molundensis Brause, Engl. Bot. Jahrb., 53: 378. 1915. Trop. Africa (Oubangui, Cameroun).
- Th. strigosa* (Willd.) Tard. in Humbert, Fl. Madagas. Fam. 5, 1: 274, f. 38(1-15). 1958. Basionym: Aspidium strigosum Willd. in L. Sp. Pl., ed. 4, 5: 249. 1810. Madagascar, Mauritius, Mascarenes, Reunion, S. Rhodesia.
- Th. strigosissima* (Copel.) Reed, comb. nov. Basionym: Dryopteris strigosissima Copel., Univ. Calif. Publ. Bot., 18: 221. 1942. New Guinea.
- Th. struthiopteroides* (C. Chr.) Reed, comb. nov. Basionym: Dryopteris struthiopteroides C. Chr., Smiths. Misc. Coll., 52: 388. 1909. Guatemala.
- Th. stuebelii* (Hieron.); Murillo, Cat. Illus. Plantas de Cundinamarca, 2: 110 (stübelii), nomen. 1966. (Colombia). = *Th. thomsonii*.

- Thelypteris subalpina* (v.A.v.R.) Reed, comb. nov. Basionym: *Dryopteris subalpina* v.A.v.R., Bull. Buit., III. 5: 200. 1922. Ternate.
- Th. *subandina* (C.Chr. et Rosenst. ex Rosenst.) Tryon, Rhodora, 69: 8. 1967. Basionym: *Dryopteris subandina* C.Chr. et Rosenst. ex Rosenst., Fedde Repert., 12: 472. 1913. Bolivia.
- Th. *subappendiculata* (Copel.) Reed, comb. nov. Basionym: *Dryopteris subappendiculata* Copel., Univ. Calif. Publ. Bot., 18: 220. 1942. New Guinea.
- Th. *subarida* (Tatew. et Tagawa ex Tagawa) Reed, comb. nov. Basionym: *Cyclosorus subaridus* Tatew. et Tagawa ex Tagawa, Acta Phytotax. Geobot., 7: 77. 1938. Philippines, Taiwan, China (Kwangtung, Fukien, Chekiang, Kwangsi).
- Th. *subattenuata* (Rosenst.) Reed, comb. nov. Basionym: *Dryopteris subattenuata* Rosenst., Fedde Repert., 10: 332. 1912. New Guinea.
- Th. *subaurita* (Tagawa) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 276. 1936. Basionym: *Dryopteris subaurita* Tagawa, Acta Phytotax. Geobot., 1: 157. 1932. Taiwan, Japan, Ryukyus.
- Th. *subcuneata* (Bak.) Reed, comb. nov. Basionym: *Nephrodium subcuneatum* Bak., in Mart. Fl. Bras., 1(2): 487. 1870. Cayenne.
- Th. *subdimorpha* (Copel.) Reed, comb. nov. Basionym: *Dryopteris subdimorpha* Copel., Univ. Calif. Publ. Bot., 18: 220. 1942. New Guinea.
- Th. *subelata* (Bak.) Reed, comb. nov. Basionym: *Nephrodium subelatum* Bak., Kew Bull., 1906: 11. 1906. China (Yunnan).
- Th. *subfalcinella* (v.A.v.R.) Reed, comb. nov. Basionym: *Dryopteris subfalcinella* v.A.v.R., Bull. Buit., III, 2: 151. 1920. Sumatra.
- Th. *subglanduligera* Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 323. 1936. Malay Penin. (Perak).
- Th. *subimmersa* Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 306. 1936. China (Hainan). An Th. *immersa* (Blume) Ching, acc. Holtt., 1954.
- Th. *subintegra* (Bak.) Reed, comb. nov. Basionym: *Polypodium subintegrum* Bak., Journ. Bot., 1877: 164. 1877. Ecuador.
- Th. *submarginalis* (Langsd. et Fisch.) Small, Ferns S.E. States, 258, illus. 1938. Basionym: *Polypodium submarginale* Langsd. et Fisch., Icon. Fil., 12: t. 13. 1810. = *Dryopteris*.
- Th. *subnigra* (Brause) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: *Dryopteris subintegra* Brause, Engl. Bot. Jahrb., 56: 82. 1920. New Guinea.
- Th. *subobliquata* (Hook.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: *Polypodium subobliquatum* Hook., Sp. Fil., 4: 240. 1862. Brazil, Guiana, Colombia.
- Th. *subochthodes* Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 305. 1936. (China, Hongkong, Japan, Taiwan, Korea). = Th. *esquirolii* var. *glabrata*.
- Th. *subochthodes* forma *laciniata* Kurata, Journ. Geobot., 11(2): 39. 1962. (Japan, Kyushu).
- Th. *subpectinata* (Copel.) Reed, comb. nov. Basionym: *Dryopteris subpectinata* Copel., Bishop Mus. Bull., 93: 9, t. 7D. 1932. Tahiti.

- Thelypteris subpennigera* (C.Chr.) Reed, comb. nov. Basionym: *Dryopteris subpennigera* C.Chr., Cat. Pl. Madagas. Pterid., 26. 1932 (nomen); Dansk Bot. Ark., 7: 52, t. 12, f. 1-2. 1932. Madagascar.
- Th. subpubescens (Blume) K.Iwats., Mem. Coll. Sci., Univ. Kyoto, Ser. B, 31(3): 173. 1965. Basionym: *Aspidium subpubescens* Blume, Enum. Pl. Jav., 149. 1828. Synonym: *Aspidium jaculosum* Christ, Bull. Boiss., II, 4: 615. 1904. Java to S. China, Taiwan, Luzon, Ceylon, Okinawa, LiuKiu, Queensland.
- Th. submilis (Hook.) Reed, comb. nov. Basionym: *Gymnogramma submilis* Hook., Sp. Fil., 5: 142, t. 293. 1864. Fernando Po.
- Th. subtetragona (Link) E.P.St.John, Amer. Fern Journ., 26: 44. 1936. Basionym: *Polypodium subtetragonum* Link, Hort. Berol., 2: 105. 1833. = *Thelypteris tetragona*.
- Th. subulifolia (v.A.v.R.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: *Dryopteris subulifolia* v.A.v.R., Bull. Buit., II, 28: 22. 1918. Sumatra.
- Th. subvillosa Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 270. 1936 (err. "(Moore)"). Based on *Polypodium auriculatum* Wall. ex Hook., Sp. Fil., 4: 237. 1862; *Polypodium subvillosum* Moore, Ind. Fil., 308 (nomen). 1861. = *Th. auriculata*.
- Th. sulfurea (E.Brown in E. et F. Brown) Reed, comb. nov. Basionym: *Dryopteris sulfurea* E.Brown in E. et F. Brown, Bishop Mus. Bull., 89: 23, t. 2. 1931. Marquesas.
- Th. sumatrana (v.A.v.R.) Reed, comb. nov. Basionym: *Dryopteris sumatrana* v.A.v.R., Handb. Mal. Ferns, 227. (1908) 1909. Sumatra, Annam, New Guinea, Singapore, Malacca, Selanger, Penang.
- Th. superba (Brause) Reed, comb. nov. Basionym: *Dryopteris superba* Brause, Engl. Bot. Jahrb., 56: 105. 1920. New Guinea.
- Th. supernitens (Christ) Reed, comb. nov. Basionym: *Dryopteris supernitens* Christ, Fedde Repert., 8: 19. 1910. Costa Rica, Panama.
- Th. supraspinigera (Rosenst.) Reed, comb. nov. Basionym: *Dryopteris supraspinigera* Rosenst., Hedwigia, 56: 353. 1915. New Guinea.
- Th. suprastrigosa (Rosenst.) Reed, comb. nov. Basionym: *Dryopteris suprastrigosa* Rosenst., Fedde Repert., 10: 335. 1912. New Guinea.
- Th. tablaziensis (C.Chr. ex Christ) Alston, Journ. Wash. Acad. Sci., 48(7): 234. 1958. Basionym: *Dryopteris tablaziensis* C.Chr. ex Christ, Bull. Boiss., II, 7: 262. 1907. Colombia, Panama, Costa Rica.
- Th. taiwanensis (C.Chr.) K.Iwats., Mem. Coll. Sci., Univ. Kyoto, Ser. B, 31(3): 183. 1965. Basionym: *Dryopteris taiwanensis* C.Chr., Ind. Fil., 297. 1905. Synonyms: *Aspidium lobulatum* Christ, Bull. Herb. Boiss., II, 4: 614. 1904, non Blume, 1828; *Dryopteris subhispidula* Rosenst., Hedwigia, 56: 343. 1915. Taiwan, Ryukyus, S. China (Kwangtung), Micronesia (Palau).
- *Th. takashimensis Reed, nom. nov. Based on *Lastrea japonica* Kryah-tofovich, Journ. Geol. Soc. Tokyo, 25: 26, t. 15, f. 1-1a. 1918; Nagao, Proc. 3rd Pan-Pacif. Sci. Congr., 2(1926): 1552. 1928; Jongmans, Foss. Cat., 43: 1437. 1960; Takahasi, Jap.

- Journ. Geol. & Geogr., 33: 194. 1962; Dijkstra, Foss. Cat., 68: 3905. 1968. Tertiary (Paleogene): Japan, Kyushu Isl., Takashima Coal Mine, Hizan.
- Thelypteris tannensis* (C.Chr.) Reed, comb. nov. Basionym: Dryopteris tannensis C.Chr., Ind. Fil., 297. 1905. Synonym: Polypodium excelsum Bak. in Hook. et Bak., Syn. Fil., 505. 1874, non Desv., 1827. New Hebrides.
- Th. tatei* (Maxon et Morton) Morton, Amer. Fern Journ., 51: 38. 1961. Basionym: Dryopteris tatei Maxon et Morton in Morton, Journ. Wash. Acad. Sci., 28: 529. 1938. Belivia.
- Th. tenebrica* (Jenm.) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 65. 1953. Basionym: Nephrodium tenebricum Jenm., Journ. Bot., 1882: 326. 1882. Jamaica. An hybrid *Th. sagittata* X *Th. serrulata* ?
- Th. tenerifrons* (Christ) Ching, Bull. Fan Mem. Inst. Biol., Bot. 10: 254. 1941. Basionym: Hypolepis tenerifrons Christ, Philip. Journ. Sci., Bot. 3: 274. 1908. Philippine Isls.
- Th. tenerima* (Fée) Reed, comb. nov. Basionym: Aspidium tenerimum Fée, Crypt. Vasc. Br., 1: 134, t. 43, f. 1. 1869. Brazil.
- Th. tephrophylla* (Copel.) Reed, comb. nov. Basionym: Dryopteris tephrophylla Copel., Philip. Journ. Sci., 40: 296. 1929. Philippine Isls. (Mindanao).
- Th. terrestris* (Copel.) Reed, comb. nov. Basionym: Dryopteris terrestris Copel., Univ. Calif. Publ. Bot., 18: 221. 1942. New Guinea.
- Th. tetragona* (Swartz) Small, Ferns S.E. States, 256, 476. 1938. Basionym: Polypodium tetragonum Swartz, Prodr., 132. 1788. Florida, Jamaica - Brazil, Peru, Galapagos Isls.
- Th. tetragona* subsp. *aberrans* Morton, Leaflets of Western Bot., 8(8): 194. 1957. Galapagos Isls.
- Th. tetragona* var. *guadalupensis* (Fée) Kramer, Acta Bot. Neerl., 9: 298. 1960. Basionym: Goniopteris guadalupensis Fée, 11^e Mem. Foug., 64, t. 17, f. 2. 1866. Saba.
- Th. teuscheri* (v.A.v.R.) Reed, comb. nov. Basionym: Dryopteris teuscheri v.A.v.R., Bull. Dept. Agr. Ind. Neerl., 18: 6. 1908. Borneo.
- Th. thelypteris* (L.) Nieuwl., Amer. Midl. Nat., 1: 226. 1910. Basionym: Acrostichum thelypteris L., Sp. Pl., 2: 1071. 1753. = *Th. palustris*.
- Th. thomsonii* (Jenm.) Proctor, Bull. Inst. Jamaica, Sci. Ser., No. 5: 65. 1953. Basionym: Polypodium thomsonii Jenm., Journ. Bot., 1886: 272. 1886. Synonym: Dryopteris stuebelii Hieron., Hedwigia, 46: 340, t. 6, f. 13. 1907. Jamaica, Hispaniola, Colombia.
- Th. thwaitesii* (Hook.) Reed, comb. nov. Basionym: Meniscium thwaitesii Hook., Fil. Exot., t. 83. 1859. S. India, Ceylon.
- Th. todayensis* (Christ) Reed, comb. nov. Basionym: Dryopteris todayensis Christ, Philip. Journ. Sci., Bot. 2: 193. 1907. Philippine Isls.

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- Th. tonkinensis* (C.Chr.) Ching, Bull. Fan Mem. Inst. Biol., Bot. 6: 292. 1936. Basionym: Dryopteris tonkinensis C.Chr., Bull. Mus. Paris, II, 6: 102. 1934. Tonkin, China (Kwangsi).
- Th. toppingii* (Copel.) K.Iwats., Acta Phytotax. Geobot., 21(5-6): 168. 1965. Basionym: Dryopteris toppingii Copel., Philip. Journ. Sci., 12C: 56. 1917. Synonym: Nephrodium indicum Ridley, Journ. Mal. Branch Roy. Asiat. Soc., 4: 73. 1926. Borneo, Malacca.
- Th. torresiana* (Gaudich.) Alston, Lilloa, 30: 11. 1960. Basionym: Polystichum torresianum Gaudich. in Frey. Voy. Bot., 333. 1828. Synonyms: Aspidium uliginosum Kunze, Linnaea, 20: 6. 1847; Polypodium tenericaule Wall. ex Hook., Kew Journ. Bot., 9: 353. 1857; Nephrodium setigerum var. calvatum Bak., Journ. Bot., 1875: 201. 1875; Nephrodium oligophlebium Bak., Journ. Bot., 1875: 291. 1875; Dryopteris lasiocarpa Hayata, Mat. Fl. Formos., 417. 1911; Dryopteris elegans Koidz., Bot. Mag. Tokyo, 38: 108. 1924; Polypodium trichodes Reinw. ex J.Smith, Journ. Bot., 3: 394. 1841. Trop. Asia, Fiji, Bismarck Archipelago, India - Polynesia, Philippine Isls., Taiwan, Assam, China (Kiangsi), Japan (Kyushu); introd. in Trinidad, Brazil, Argentina.
- Th. torresiana* var. calvata (Bak.) K.Iwats., Mem. Coll. Sci., Univ. Kyoto, Ser. B, 31(3): 154. 1965. Basionym: Nephrodium setigerum var. calvatum Bak., Journ. Bot., 1875: 201. 1875. E. & Cent. China, Korea, Japan (Honshu, Shikoku, Kyushu).
- Th. totta* (Thunb.) Schelpe, Journ. S. Afr. Bot., 29: 91. 1963. Basionym: Polypodium tottum Thunb., Prodr. Pl. Cap., 172. 1800. Synonyms: Aspidium goggilodus Schkuhr, Krypt. Gew., 1: 193, t. 33c. 1809; Aspidium ecklonii Kunze, Linnaea, 10: 546. 1936; Nephrodium plantianum Pappe et Raws., Syn. Fil. Afr. Austr., 139. 1868. Trop. South Amer., West Indies, S. Africa, Taiwan, Japan, S.E.China, Australia, New Zealand, Hawaiian Isls.
- Th. totta* var. glabra (Mett. apud H.Itô) Reed, comb. nov. Basionym: Dryopteris gongylodes var. glabra Mett. apud H.Itô, Journ. Jap. Bot., 11: 786. 1935. Japan.
- Th. totta* var. glabra forma glaberrimus (H.Itô) Reed, comb. nov. Basionym: Cyclosorus goggilodus var. glaber forma glaberrimus H.Itô, Bot. Mag. Tokyo, 51: 714. 1937. Japan.
- Th. totta* var. glabra forma paucipilosa (H.Itô) Reed, comb. nov. Basionym: Cyclosorus goggilodus var. glaber forma paucipilosus H.Itô, Bot. Mag. Tokyo, 51: 714. 1937. Japan, Taiwan.
- Th. totta* var. hirsuta (Mett.) Morton, Contrib. U.S. Nat. Herb., 38(2): 73. 1967. Basionym: Aspidium unitum var. hirsutum Mett., Ann. Lugd. Bat., 1: 230. 1864. Synonym: Pteris polypodioides Poir. in Lam., Encycl. Meth., 5: 716. 1804. Brazil, Australia, New Zealand, Mexico, Hawaiian Isls.
- Th. totta* var. longipinna (C.Chr.) Morton, Contrib. U.S. Nat. Herb., 38(2): 74. 1967. Basionym: Dryopteris gongylodes var. longi-

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Brazil, Uruguay, Paraguay.
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